

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 21:44:31 ; Search time 29.025 Seconds
(without alignments)
273.726 Million cell updates/sec

Title: US-10-074-620-1

Sequence: 1 ggcctggtcaccctgtta 18

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 569978 seqs, 220691566 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 120 summaries

Database :

Issued Patents_NA:*
1: /cgn2_6/prodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/prodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/prodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/prodata/2/ina/PTUS_COMB.seq:*
6: /cgn2_6/prodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16	88.9	20	1	US-08-197-791-28
2	16	88.9	50	1	US-08-171-389-546
3	16	88.9	50	1	US-08-123-936-546
4	16	88.9	50	2	US-08-475-228A-546
5	16	88.9	50	3	US-08-482-080A-546
6	16	88.9	50	4	US-09-354-947-546
7	16	88.9	50	5	PCT-US93-12388-546
8	16	88.9	50	5	PCT-US93-12388-546
9	16	88.9	3833	5	PCT-US95-04611A-18
10	16	88.9	5931	5	US-08-783-774-1
11	16	88.9	5931	4	US-09-556-706B-1
12	15	83.3	1808	4	US-09-171-710-5
13	15	83.3	3065	4	US-09-111-710-3
14	14	77.8	5467	2	US-08-745-206A-12
15	14	77.8	5467	2	US-08-311-363-12
16	13	72.2	261	4	US-09-657-453A-24
17	13	72.2	308	4	US-09-141-027-9
18	13	72.2	308	4	US-09-617-804-9
19	13	72.2	361	4	US-09-702-705-1159
20	13	72.2	361	4	US-09-736-457-1159
21	13	72.2	504	4	US-09-228-986-40
22	13	72.2	794	4	US-09-173-300-10
23	13	72.2	1124	3	US-09-221-456-1
24	13	72.2	1124	4	US-09-558-740-1
25	13	72.2	1302	4	US-09-328-352-8822
26	13	72.2	1716	4	US-09-328-352-2907
27	13	72.2	1742	3	US-09-099-676-2

28	13	72.2	1742	3	US-09-565-910-2	Sequence 2, Appli
29	13	72.2	2972	1	US-08-454-455-3	Sequence 3, Appli
30	13	72.2	3789	1	US-08-454-455-5	Sequence 5, Appli
31	13	72.2	3959	2	US-08-474-067-1	Sequence 1, Appli
32	13	72.2	3959	2	US-08-474-068A-1	Sequence 1, Appli
33	13	72.2	3959	2	US-08-472-481-1	Sequence 1, Appli
34	13	72.2	5137	5	PCT-US96-01314-39	Sequence 39, Appli
35	13	72.2	5138	2	US-08-476-062A-39	Sequence 39, Appli
36	13	72.2	36941	4	US-08-311-731A-10	Sequence 130, Appli
37	13	72.2	51552	4	US-09-733-294A-30	Sequence 30, Appli
38	13	72.2	4403765	3	US-09-103-840A-2	Sequence 2, Appli
39	13	72.2	4411529	3	US-09-103-840A-1	Sequence 1, Appli
40	13	66.7	54	4	US-08-584-040-8221	Sequence 8221, Ap
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42	12	66.7	54	4	US-09-371-772B-11131	Sequence 11131, A
43	12	66.7	60	4	US-09-128-354-12	Sequence 12, Appli
44	12	66.7	60	4	US-09-128-354-19	Sequence 19, Appli
45	12	66.7	275	4	US-09-313-294A-3690	Sequence 3690, Ap
46	12	66.7	285	4	US-09-313-294A-1993	Sequence 1993, Ap
47	12	66.7	289	4	US-09-313-294A-1541	Sequence 1541, Ap
48	12	66.7	333	4	US-09-702-705-384	Sequence 384, App
49	12	66.7	333	4	US-09-736-457-384	Sequence 384, App
50	12	66.7	382	4	US-09-702-705-240	Sequence 240, App
51	12	66.7	382	4	US-09-736-457-240	Sequence 240, App
52	12	66.7	633	3	US-09-328-111-48	Sequence 48, Appli
53	12	66.7	693	4	US-09-629-645A-10	Sequence 10, Appli
54	12	66.7	727	4	US-09-629-645A-21	Sequence 21, Appli
55	12	66.7	771	3	US-08-777-708C-7	Sequence 7, Appli
56	12	66.7	866	4	US-09-620-312D-662	Sequence 682, App
57	12	66.7	884	4	US-09-252-991A-11081	Sequence 11081, A
58	12	66.7	1018	4	US-08-976-259-93	Sequence 93, Appli
59	12	66.7	1152	2	US-09-036-582-34	Sequence 34, Appli
60	12	66.7	1202	4	US-09-620-312D-97	Sequence 97, Appli
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62	12	66.7	1359	4	US-09-252-991A-1612	Sequence 12612, A
63	12	66.7	1585	4	US-09-071-035-43	Sequence 43, Appli
64	12	66.7	1659	4	US-09-071-035-43	Sequence 41, Appli
65	12	66.7	1722	4	US-09-489-847-93	Sequence 93, Appli
66	12	66.7	1953	2	US-08-557-122A-1	Sequence 1, Appli
67	12	66.7	1953	4	US-09-262-666-1	Sequence 1, Appli
68	12	66.7	2014	4	US-09-620-312D-1037	Sequence 1037, Ap
69	12	66.7	2169	4	US-09-617-145-1	Sequence 1, Appli
70	12	66.7	2337	4	US-09-252-991A-11020	Sequence 11020, A
71	12	66.7	3035	4	US-09-620-312D-286	Sequence 286, App
72	12	66.7	3188	4	US-08-943-731-183	Sequence 183, App
73	12	66.7	3197	4	US-09-620-312D-285	Sequence 285, App
74	12	66.7	3855	3	US-08-974-549A-4	Sequence 4, Appli
75	12	66.7	3855	4	US-08-912-951-4	Sequence 224, App
76	12	66.7	4015	3	US-08-851-843A-224	Sequence 224, App
77	12	66.7	4015	3	US-08-974-549A-1	Sequence 1, Appli
78	12	66.7	4015	3	US-08-854-050-224	Sequence 224, App
79	12	66.7	4015	4	US-09-430-323-224	Sequence 224, App
80	12	66.7	4015	4	US-09-572-423B-3	Sequence 224, App
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82	12	66.7	4015	4	US-09-675-321-1	Sequence 1, Appli
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85	12	66.7	4015	4	US-09-733-294A-1	Sequence 3, Appli
86	12	66.7	4029	3	US-08-851-843A-113	Sequence 173, Appli
87	12	66.7	4029	3	US-08-974-549A-252	Sequence 252, App
88	12	66.7	4029	3	US-08-854-050-173	Sequence 173, App
89	12	66.7	4029	4	US-09-430-323-173	Sequence 173, App
90	12	66.7	4037	3	US-08-974-549A-343	Sequence 343, App
91	12	66.7	4154	1	US-08-188-582-3	Sequence 3, Appli
92	12	66.7	4154	4	US-08-446-715-3	Sequence 3, Appli
93	12	66.7	4200	4	US-08-912-951-6	Sequence 6, Appli
94	12	66.7	4335	3	US-08-974-549A-6	Sequence 6, Appli
95	12	66.7	6911	1	US-08-311-174-4	Sequence 4, Appli
96	12	66.7	11770	4	US-08-961-527-172	Sequence 172, App
97	12	66.7	14654	4	US-08-961-527-106	Sequence 106, App
98	12	66.7	15418	4	US-09-783-203-1	Sequence 1, Appli
99	12	66.7	18318	1	US-08-114-926A-6	Sequence 6, Appli
100	12	66.7	18318	2	US-08-926-922-6	Sequence 6, Appli

101 12 66.7 18318 3 US-09-253-682-6
 102 12 66.7 18318 3 US-09-527-657-6
 103 12 66.7 18994 3 US-08-459-586-4
 104 12 66.7 18994 2 US-08-282-696-4
 105 12 66.7 20084 3 US-08-943-731-5
 106 12 66.7 29629 4 US-09-729-995-3
 107 12 66.7 30310 4 US-09-657-346A-96
 108 12 66.7 51552 4 US-09-733-294A-30
 109 12 66.7 62804 4 US-09-800-960-3
 110 12 66.7 62804 4 US-09-676-6108-24
 111 12 66.7 174493 4 US-09-804-471A-3
 112 12 66.7 197496 4 US-09-877-177A-10
 113 12 66.7 202001 4 US-09-734-674-3
 114 12 66.7 319608 4 US-09-539-333D-1
 115 12 66.7 319608 4 US-09-679-409-1
 116 12 66.7 4403765 3 US-09-103-840A-2
 117 12 66.7 4411529 2 US-09-103-840A-1
 118 11 61.1 20 3 US-08-450-905B-125
 119 11 61.1 20 3 US-07-982-759F-125
 120 11 61.1 20 4 US-09-422-978-5580

ALIGNMENTS

Sequence 6, Appl1
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 Sequence 4, Appl1
 Sequence 4, Appl1
 Sequence 5, Appl1
 Sequence 3, Appl1
 Sequence 3, Appl1
 Sequence 96, Appl1
 Sequence 30, Appl1
 Sequence 3, Appl1
 Sequence 24, Appl1
 Sequence 3, Appl1
 Sequence 10, Appl1
 Sequence 3, Appl1
 Sequence 1, Appl1
 Sequence 1, Appl1
 Sequence 2, Appl1
 Sequence 125, App
 Sequence 125, App
 Sequence 5580, Ap

RESULT 1

US-08-197-791-28

Sequence 26, Appl1
 Patent No. 5,567,722

GENERAL INFORMATION:
 APPLICANT: Sorige, Joseph A.

APPLICANT: Mullinax, Rebecca L.
 TITLE OF INVENTION: NOVEL POLYMERASE COMPOSITIONS AND USES

TITLE OF INVENTION: THEROP
 NUMBER OF SEQUENCES: 44

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Limbach and Limbach

STREET: 2001 Ferry Building
 CITY: San Francisco

STATE: CA
 COUNTRY: USA

ZIP: 94111
 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/197,791

FILING DATE:
 CLASSIFICATION: 424

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/164,290

FILING DATE: 08-DEC-1993
 ATTORNEY/AGENT INFORMATION:

NAME: Bortner, Scott R.
 REGISTRATION NUMBER: 34,298

REFERENCE/DOCKET NUMBER: STRG 20270 USA
 TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-433-4150
 TELEFAX: 415-433-8216

INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs
 TYPE: nucleic acid

STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO

ANTI-SENSE: NO
 US-08-197-791-28

Query Match 88.9%; Score 16; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGGTGGTGCACCTGT 16
 Db 1 GGCTGGTGCACCTGT 16

RESULT 2

US-08-171-389-546/C

Sequence 546, Application US/08/171389
 Patent No. 5,567,722

GENERAL INFORMATION:
 APPLICANT: Edwards, Cynthia A.

APPLICANT: Cantor, Charles R.
 APPLICANT: Andrews, Beth M.

APPLICANT: Turin, Lisa M.
 TITLE OF INVENTION: Sequence-directed DNA Binding

TITLE OF INVENTION: Molecules, Compositions and Methods
 NUMBER OF SEQUENCES: 641

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genelabs Technologies, Inc.

STREET: 505 Penobscot Drive
 CITY: Redwood City

STATE: CA
 COUNTRY: USA

ZIP: 94063
 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/171,389

FILING DATE:
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/123,936

FILING DATE: 17-SEP-1993
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/996,783
 FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/723,618

FILING DATE: 27-JUN-1991
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/081,070
 FILING DATE: 22-JUN-1993

ATTORNEY/AGENT INFORMATION:
 NAME: Fabian, Gary R.

REGISTRATION NUMBER: 33,875
 REFERENCE/DOCKET NUMBER: 4600-0175/G19P3

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880

TELEFAX: (415) 324-0960
 INFORMATION FOR SEQ ID NO: 546:

SEQUENCE CHARACTERISTICS:
 LENGTH: 50 base pairs

TYPE: nucleic acid
 STRANDEDNESS: double

TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO
 ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Epstein Barr virus L2 (start site
 INDIVIDUAL ISOLATE: 90021)

US-08-171-389-546

Query Match 88.9%; Score 16; DB 1; Length 50;
 Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
DB 41 GGCTGGTGCACCTGT 26

RESULT 3

US-08-123-936-546/c
Sequence 546, Application US/08123936
Patent No. 5726014
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
TITLE OF INVENTION: Screening Assay for the Detection of
NUMBER OF SEQUENCES: 640
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 546:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Epstein Barr virus L2 (start site)
INDIVIDUAL ISOLATE: 90021
US-08-123-936-546

Query Match 88.9%; Score 16; DB 1; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
DB 41 GGCTGGTGCACCTGT 26

RESULT 4
US-08-475-228A-546/c
Sequence 546, Application US/08475228A
Patent No. 5869241
GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,228A
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Stratford, Carol A.
REGISTRATION NUMBER: 34,444
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 546:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Epstein Barr virus L2 (start site)
INDIVIDUAL ISOLATE: 90021
US-08-475-228A-546

Query Match 88.9%; Score 16; DB 2; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
DB 41 GGCTGGTGCACCTGT 26

RESULT 5
US-08-482-080A-546/c
Sequence 546, Application US/08482080A
Patent No. 6010849
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.

APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,080A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 546:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Epstein Barr virus L2 (start site)
INDIVIDUAL ISOLATE: 90021)
US-08-482-080A-546

Query Match 88.9%; Score 16; DB 3; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
|||||
DB 41 GGCTGGTGCACCTGT 26

RESULT 6
US-09-354-947-546/C
Sequence 546, Application US/09354947
Patent No. 6384208
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.

TITLE OF INVENTION: Sequence-Directed DNA Binding
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/354,947
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/482,080
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 546:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Epstein Barr virus L2 (start site)
INDIVIDUAL ISOLATE: 90021)
US-09-354-947-546

Query Match 88.9%; Score 16; DB 4; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
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DB 41 GGCTGGTGCACCTGT 26

RESULT 7
PCT-US93-12388-546/C
Sequence 546, Application PC/TUS9312388
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Sequence-Directed DNA Binding
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12388
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fadian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 546:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Epstein Barr virus L2 (start site
INDIVIDUAL ISOLATE: 90021)
PCT-US93-12388-546
Query Match 88.9%; Score 16; DB 5; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGT 16
DB 41 GGCTGGTGCACCTGT 26
RESULT 8
US-08-917-320-18/c
Sequence 18, Application US/08917320
Patent No. 5824508
GENERAL INFORMATION:
APPLICANT: Spaete, Richard and Jackman, Winthrop, T.
TITLE OF INVENTION: No. 5824508 Splicing Variants of gp350/220
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/917,320
FILING DATE: 25-AUG-1997

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/229,291
FILING DATE: April 18, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Luann Caer
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-003/0005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5163
TELEFAX: 415-857-0663
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3833 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1014..3734
US-08-917-320-18
Query Match 88.9%; Score 16; DB 1; Length 3833;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGT 16
DB 3137 GGCTGGTGCACCTGT 3122
RESULT 9
PCT-US95-04611A-18/c
Sequence 18, Application PC/TUS9504611A
GENERAL INFORMATION:
APPLICANT: Spaete, Richard and Jackman, Winthrop, T.
TITLE OF INVENTION: Non Splicing Variants of gp350/220
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04611A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/229,291
FILING DATE: April 18, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Luann Caer
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-003/0005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5163
TELEFAX: 415-857-0663
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3833 base pairs
TYPE: nucleic acid
STRANDEDNESS: double

TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1014..3734
PCT-US95-04611A-18

Query Match 88.9%; Score 16; DB 5; Length 3833;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTACCTGT 16
|||||
DB 3137 GGCTGGTGTACCTGT 3122

RESULT 10
US-08-783-774-1/c
Sequence 1, Application US/08783774
Patent No. 6054130
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
TITLE OF INVENTION: NON-SPLICING VARIANTS OF
TITLE OF INVENTION: GP350/220
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/783,774
FILING DATE: 15-JAN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7682-037
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5931 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1014..3734
OTHER INFORMATION:
US-08-783-774-1

Query Match

Best Local Similarity 88.9%; Score 16; DB 3; Length 5931;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTACCTGT 16
|||||
DB 3137 GGCTGGTGTACCTGT 3122

RESULT 11

US-09-556-706B-1/c
Sequence 1, Application US/09556706B
Patent No. 6458364
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
TITLE OF INVENTION: NON-SPLICING VARIANTS OF GP350/220
FILE REFERENCE: 7682-050-999
CURRENT APPLICATION NUMBER: US/09/556,706B
CURRENT FILING DATE: 2000-04-24
PRIOR APPLICATION NUMBER: 08/783,774
PRIOR FILING DATE: 1997-01-15
PRIOR APPLICATION NUMBER: 08/229,291
PRIOR FILING DATE: 1994-04-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 5931
TYPE: DNA
ORGANISM: Virus
FEATURE:
OTHER INFORMATION: gp350/220
US-09-556-706B-1

Query Match 88.9%; Score 16; DB 4; Length 5931;
Best Local Similarity 100.0%; Pred. No. 0.99;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTACCTGT 16
|||||
DB 3137 GGCTGGTGTACCTGT 3122

RESULT 12
US-09-171-710-5
Sequence 5, Application US/09171710
Patent No. 632330
GENERAL INFORMATION:
APPLICANT: ISHIDUKA, Yasuyuki
TITLE OF INVENTION: NOVEL PROTEINS C16 AND C16N OR GENES ENCODING THE SAME
FILE REFERENCE: 0020-4474P
CURRENT APPLICATION NUMBER: US/09/171,710
CURRENT FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: PCT/JP97/01391
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: 9-41562
EARLIER FILING DATE: 1997-02-10
EARLIER APPLICATION NUMBER: 8-127954
EARLIER FILING DATE: 1996-04-23
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 1808
TYPE: DNA
ORGANISM: Homo sapiens
US-09-171-710-5

Query Match 83.3%; Score 15; DB 4; Length 1808;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTACCTG 15
|||||
DB 949 GGCTGGTGTACCTG 963

RESULT 13
US-09-171-710-3
Sequence 3, Application US/09171710
Patent No. 632330
GENERAL INFORMATION:
APPLICANT: ISHIDUKA, Yasuyuki

APPLICANT: MOCHIZUKI, Reiko
TITLE OF INVENTION: NOVEL PROTEINS C16 AND C16N OR GENES ENCODING THE SAME
FILE REFERENCE: 0020-4474P
CURRENT APPLICATION NUMBER: US/09/171, 710
EARLIER FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: PCT/JP97/01391
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: 9-41562
EARLIER FILING DATE: 1997-02-10
EARLIER APPLICATION NUMBER: 8-127954
EARLIER FILING DATE: 1996-04-23
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 3065
TYPE: DNA
ORGANISM: Mus sp.
US-09-171-710-3

Query Match 83.3%; Score 15; DB 4; Length 3065;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTG 15
DB 1184 GGCTGGTGCACCTG 1198

RESULT 14
US-07-745-206A-12
Sequence 12, Application US/0745206A
Patent No. 5429921
GENERAL INFORMATION:
APPLICANT: Harpold, Michael
APPLICANT: Ellis, Steven
APPLICANT: Williams, Mark
APPLICANT: McCue, Ann
APPLICANT: Feldman, Daniel
TITLE OF INVENTION: Human Calcium Channel Compositions and
TITLE OF INVENTION: Methods
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fitch, Even, Tabin & Flannery
STREET: 135 S. Lasalle
CITY: Chicago
STATE: Illinois
COUNTRY: U.S.A.
ZIP: 60603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/745,206A
FILING DATE: 19910815
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Feder, Scott B
REFERENCE/DOCKET NUMBER: 51504
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-372-7842
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 5467 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: join(144..3164, 3168..3245, 3249..3386, 3390
LOCATION: ..3392, 3396..3488, 3495..3539, 3543..3581, 3585
LOCATION: ..3392, 3396..3488, 3495..3539, 3543..3581, 3585

LOCATION: ..3587, 3591..3626, 3630..3689, 3693..3737, 3744
LOCATION: ..3746, 3750..4823, 4827..4841, 4845..5006, 5010
LOCATION: ..5096, 5100..5306, 5310..5366, 5370..5465
US-07-745-206A-12

Query Match 77.8%; Score 14; DB 1; Length 5467;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGGTGCACCTG 16
DB 4965 CTGGTGCACCTG 4978

RESULT 15
US-08-311-363-12
Sequence 12, Application US/08311363
Patent No. 5876958
GENERAL INFORMATION:
APPLICANT: Harpold, Michael
APPLICANT: Ellis, Steven
APPLICANT: Williams, Mark
APPLICANT: Feldman, Daniel
APPLICANT: McCue, Ann
APPLICANT: Brenner, Robert
TITLE OF INVENTION: Human Calcium Channel Compositions and
TITLE OF INVENTION: Methods
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Brown, Martin, Haller & McClain
STREET: 1660 Union Street
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92101-2926
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/311,363
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/745,206
FILING DATE: 15-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L.
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-51506
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)238-0999
TELEFAX: (619)238-0062
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 5467 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: join(144..3164, 3168..3245, 3249..3386, 3390
LOCATION: ..3392, 3396..3488, 3495..3539, 3543..3581, 3585
LOCATION: ..3587, 3591..3626, 3630..3689, 3693..3737, 3744
LOCATION: ..3746, 3750..4823, 4827..4841, 4845..5006, 5010
LOCATION: ..5096, 5100..5306, 5310..5366, 5370..5465)

Query Match 77.8%; Score 14; DB 2; Length 5467;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGGTGTACCTGT 16
Db 4965 CTGGTGTACCTGT 4978

RESULT 16
US-09-657-453A-24/c
Sequence 24, Application US/09657453A
Patent No. 6458591
GENERAL INFORMATION:
APPLICANT: Brett P. Monia
TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHORYLASE KINASE ALPHA 2 EXPRESS
FILE REFERENCE: RTS-0136
CURRENT APPLICATION NUMBER: US/09/657,453A
CURRENT FILING DATE: 2000-09-07
NUMBER OF SEQ ID NOS: 105
SEQ ID NO 24
LENGTH: 261
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (148)...(177)
US-09-657-453A-24

Query Match 72.2%; Score 13; DB 4; Length 261;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GGTGTACCTGTT 17
Db 185 GGTGTACCTGTT 173

RESULT 17
US-09-141-027-9/c
Sequence 9, Application US/09141027A
Patent No. 6372454
GENERAL INFORMATION:
APPLICANT: Duan, et al.
TITLE OF INVENTION: Follistatin-3
FILE REFERENCE: PF388
CURRENT APPLICATION NUMBER: US/09/141,027A
CURRENT FILING DATE: 1998-08-27
EARLIER APPLICATION NUMBER: 60/656,248
EARLIER FILING DATE: 1997-08-29
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 9
LENGTH: 308
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (19)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (24)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (29)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (34)
OTHER INFORMATION: n equals a, t, g, or c

FEATURE:
NAME/KEY: misc_feature
LOCATION: (38)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (40)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (50)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (83)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (107)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (205)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (220)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (237)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (272)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (297)
OTHER INFORMATION: n equals a, t, g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (308)
OTHER INFORMATION: n equals a, t, g, or c
US-09-141-027-9

Query Match 72.2%; Score 13; DB 4; Length 308;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GGTGTACCT 14
Db 18 GGTGTACCT 6

RESULT 18
US-09-617-804-9/c
Sequence 9, Application US/09617804
Patent No. 6537966
GENERAL INFORMATION:
APPLICANT: Duan, et al.
TITLE OF INVENTION: Follistatin-3
FILE REFERENCE: PF388P1
CURRENT APPLICATION NUMBER: US/09/617,804
CURRENT FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/144,088
PRIOR FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: 09/141,027
PRIOR FILING DATE: 1998-08-27

PRIOR APPLICATION NUMBER: 60/056,248
PRIOR FILING DATE: 1997-08-29
PRIOR APPLICATION NUMBER: PCT/US98/17710
PRIOR FILING DATE: 1998-08-27
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 9
LENGTH: 308
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (19)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (24)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (29)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (34)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (38)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (40)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (50)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (83)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (107)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (205)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (220)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (237)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (272)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (242)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (297)
OTHER INFORMATION: n equals a, t, g, or c
NAME/KEY: misc_feature
LOCATION: (308)
OTHER INFORMATION: n equals a, t, g, or c
US-09-617-804-9

Query Match 72.2%; Score 13; DB 4; Length 308;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GCTGGTGTACCT 14
DB 18 GCTGGTGTACCT 6

RESULT 19
US-09-702-705-1159/c
Sequence 1159, Application US/09702705
Patent No. 6504010
GENERAL INFORMATION:
APPLICANT: Wang, Tongrong
APPLICANT: Bangur, Chaitanya S.
APPLICANT: Lodes, Michael A.
APPLICANT: Fanger, Gary
APPLICANT: Vedvick, Tom
APPLICANT: Carter, Darrick
APPLICANT: Retter, Marc
APPLICANT: Mannion, Jane
APPLICANT: Fan, Liqun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.478C14
CURRENT FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 1833
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1159
LENGTH: 361
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(361)
OTHER INFORMATION: n = A,T,C or G
US-09-702-705-1159

Query Match 72.2%; Score 13; DB 4; Length 361;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGGTGTACCTG 15
DB 148 CTGGTGTACCTG 136

RESULT 20
US-09-736-457-1159/c
Sequence 1159, Application US/09736457
Patent No. 6509448
GENERAL INFORMATION:
APPLICANT: Wang, Tongrong
APPLICANT: Bangur, Chaitanya S.
APPLICANT: Lodes, Michael A.
APPLICANT: Fanger, Gary
APPLICANT: Vedvick, Tom
APPLICANT: Carter, Darrick
APPLICANT: Retter, Marc
APPLICANT: Mannion, Jane
APPLICANT: Fan, Liqun
APPLICANT: Wang, Aijun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.478C15
CURRENT FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 1864
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1159
LENGTH: 361
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(361)
OTHER INFORMATION: n = A,T,C or G
US-09-736-457-1159

Query Match 72.2%; Score 13; DB 4; Length 361;

Best Local Similarity 100.0%; Pred. No. 55;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGCTGCACCTG 15
|||||
Db 148 CTGCTGCACCTG 136

RESULT 21
US-09-228-986-40

; Sequence 40, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 504
; TYPE: DNA
; ORGANISM: Pinus radiata
US-09-228-986-40

Query Match 72.2%; Score 13; DB 4; Length 504;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGCTGCACCTG 15
|||||
Db 279 CTGCTGCACCTG 291

RESULT 22
US-09-173-300-10

; Sequence 10, Application US/09173300
; Patent No. 6451581
; GENERAL INFORMATION:
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Hiltz, William D.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Rafalski, J. Antoni
; TITLE OF INVENTION: PLANT BRANCHED CHAIN AMINO ACID BIOSYNTHETIC ENZYMES
; FILE REFERENCE: BB-1126
; CURRENT APPLICATION NUMBER: US/09/173,300
; CURRENT FILING DATE: 1998-10-15
; EARLIER APPLICATION NUMBER: 60/063,423
; EARLIER FILING DATE: 1997 October 28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Microsoft Word Version 7.0A
; SEQ ID NO 10
; LENGTH: 794
; TYPE: DNA
; ORGANISM: Zea mays
US-09-173-300-10

Query Match 72.2%; Score 13; DB 4; Length 794;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGGTGCACCTGT 16
|||||
Db 437 TGGTGCACCTGT 449

RESULT 23
US-09-221-456-1/c
; Sequence 1, Application US/09221456

; Patent No. 6162899
; GENERAL INFORMATION:
; APPLICANT: SATHE, GANESH
; APPLICANT: HALSEY, WENDY
; APPLICANT: MUIR, ALISON
; APPLICANT: CHAMBERS, JON
; APPLICANT: SEKERES, PHILIP
; TITLE OF INVENTION: METHODS OF SCREENING FOR ACONISTS
; TITLE OF INVENTION: AND ANTAGONISTS OF THE HNEA81 RECEPTOR
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ratner & Prestia
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: USA
; ZIP: 19482

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,456
FILING DATE: 28-DEC-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/956,975
FILING DATE: 23-OCT-1997

ATTORNEY/AGENT INFORMATION:
NAME: Prestia, Paul F.
REGISTRATION NUMBER: 23,031

REFERENCE/DOCKET NUMBER: GH-70318-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0700

TELEX: 846169
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 1124 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA

US-09-221-456-1

Query Match 72.2%; Score 13; DB 3; Length 1124;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GTGTCACTGTGA 18
|||||
Db 89 GTGTCACTGTGA 77

RESULT 24
US-09-558-740-1/c

; Sequence 1, Application US/09558740
; Patent No. 6358695
; GENERAL INFORMATION:
; APPLICANT: SATHE, GANESH
; APPLICANT: HALSEY, WENDY
; APPLICANT: MUIR, ALISON
; APPLICANT: CHAMBERS, JON
; APPLICANT: SEKERES, PHILIP
; TITLE OF INVENTION: METHODS OF SCREENING FOR ACONISTS AND
; TITLE OF INVENTION: ANTAGONISTS OF THE HNEA81 RECEPTOR
; FILE REFERENCE: GH-70318-2
; CURRENT APPLICATION NUMBER: US/09/558,740
; CURRENT FILING DATE: 2000-04-26
; PRIOR APPLICATION NUMBER: 08/956,975
; PRIOR FILING DATE: 1997-10-23
; PRIOR APPLICATION NUMBER: 09/221,456

PRIOR FILING DATE: 1998-12-28
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 1124
TYPE: DNA
ORGANISM: HOMO SAPIENS
US-09-558-740-1

Query Match 72.2%; Score 13; DB 4; Length 1124;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GTGTCACCTGTTA 18
|||||
DB 89 GTGTCACCTGTTA 77

RESULT 25
US-09-328-352-3822/c
Sequence 3822, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 3822
LENGTH: 1302
TYPE: DNA
ORGANISM: Acinetobacter baumannii
US-09-328-352-3822

Query Match 72.2%; Score 13; DB 4; Length 1302;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGGTGTACCTGT 16
|||||
DB 322 TGGTGTACCTGT 310

RESULT 26
US-09-328-352-2907/c
Sequence 2907, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 2907
LENGTH: 1716
TYPE: DNA
ORGANISM: Acinetobacter baumannii
US-09-328-352-2907

Query Match 72.2%; Score 13; DB 4; Length 1716;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GTGTCACCTGTTA 18
|||||
DB 1328 GTGTCACCTGTTA 1316

RESULT 27

US-09-099-676-2
Sequence 2, Application US/09099676
Patent No. 6100075
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Baughn, Mariah R.
TITLE OF INVENTION: DELTA 1-PYRROLINE-5-CARBOXYLATE REDUCTASE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Inocyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/099,676
FILING DATE: HERewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cetrone, Michael C
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0532 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-855-0572
TELEX:

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:

LENGTH: 1742 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSONO1
CLONE: 2278458
US-09-099-676-2

Query Match 72.2%; Score 13; DB 3; Length 1742;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGTGTACCC 13
|||||
DB 479 GGCTGTGTACCC 491

RESULT 28
US-09-565-910-2
Sequence 2, Application US/09565910
Patent No. 6268192
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Baughn, Mariah R.
TITLE OF INVENTION: DELTA 1-PYRROLINE-5-CARBOXYLATE REDUCTASE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Inocyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA

COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FASTSEQ for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/565,910
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/099,676
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0532 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-855-0572
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1742 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSNON01
CLONE: 2278458
US-09-565-910-2

Query Match 72.2%; Score 13; DB 3; Length 1742;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACC 13
DB 479 GGCTGGTGCACC 491

RESULT 29
US-08-454-455-3/C
Sequence 3, Application US/08454455
Patent No. 5635601
GENERAL INFORMATION:
APPLICANT: Moyle, Matthew
APPLICANT: McLean, John W.
TITLE OF INVENTION: NOVEL BETA INTEGRIN SUBUNIT
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 720 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/454,455
FILING DATE: 30-May-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193989
FILING DATE: 09-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004142
FILING DATE: 13-JAN-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/670607
FILING DATE: 14-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: P0699C2D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2972 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
US-08-454-455-3

Query Match 72.2%; Score 13; DB 1; Length 2972;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGGTGCACCTG 15
DB 1012 CTGGTGCACCTG 1000

RESULT 30
US-08-454-455-5/C
Sequence 5, Application US/08454455
Patent No. 5635601
GENERAL INFORMATION:
APPLICANT: Moyle, Matthew
APPLICANT: McLean, John W.
TITLE OF INVENTION: NOVEL BETA INTEGRIN SUBUNIT
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 720 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/454,455
FILING DATE: 30-May-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193989
FILING DATE: 09-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/004142
FILING DATE: 13-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/670607
FILING DATE: 14-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: P0699C2D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 3789 base pairs

TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
US-08-454-455-5

Query Match 72.2%; Score 13; DB 1; Length 3789;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGGTGTACCTGT 15
|||||
DB 1041 CTGGTGTACCTGT 1029

RESULT 31
US-08-474-067-1
Sequence 1, Application US/08474067
Patent No. 5811518
GENERAL INFORMATION:
APPLICANT: Ranscht, Barbara
TITLE OF INVENTION: T-Cadherin Adhesion Molecule
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,067
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/213,361
FILING DATE: 14-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/607,293
FILING DATE: 30-OCT-1990
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 1682
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3959 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 45..2181
US-08-474-067-1

Query Match 72.2%; Score 13; DB 1; Length 3959;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGGTGTACCTGT 16
|||||
DB 976 TGGTGTACCTGT 988

RESULT 32
US-08-474-068A-1

Sequence 1, Application US/08474068A

Patent No. 5837525
GENERAL INFORMATION:
APPLICANT: Ranscht, Barbara
TITLE OF INVENTION: T-Cadherin Adhesion Molecule
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,068A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/213,361
FILING DATE: 14-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/607,293
FILING DATE: 30-OCT-1990
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 1683
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3959 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 45..2181
US-08-474-068A-1

Query Match 72.2%; Score 13; DB 2; Length 3959;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGGTGTACCTGT 16
|||||
DB 976 TGGTGTACCTGT 988

RESULT 33
US-08-472-481-1
Sequence 1, Application US/08472481
Patent No. 5863804
GENERAL INFORMATION:
APPLICANT: Ranscht, Barbara
TITLE OF INVENTION: T-Cadherin Adhesion Molecule
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/472,481
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/213,361
FILING DATE: 14-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/607,293
FILING DATE: 30-OCT-1990
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 1686
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3959 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 45..2181
US-08-472-481-1

Query Match 72.2%; Score 13; DB 2; Length 3959;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TGCTGTCACTGT 16
Db 976 TGCTGTCACTGT 988

RESULT 34
PCT-US96-01314-39/c
Sequence 39, Application PC/TUS9601314
GENERAL INFORMATION:
APPLICANT: M. Amin Arnaut
TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
TITLE OF INVENTION: ANTAGONISTS
NUMBER OF SEQUENCES: 78
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.1)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/01314
FILING DATE: 30-JAN-96
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/380,167
FILING DATE: 30-JAN-95
ATTORNEY/AGENT INFORMATION:
NAME: John W. Freeman
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00786/267001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154

INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 5137 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
PCT-US96-01314-39

Query Match 72.2%; Score 13; DB 5; Length 5137;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGTGTCACT 13
Db 4208 GGCTGTGTCACT 4196

RESULT 35
US-08-476-062A-39/c
Sequence 39, Application US/08476062A
Patent No. 5877275
GENERAL INFORMATION:
APPLICANT: Arnaut, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
TITLE OF INVENTION: RESPONSES WITH BETA2 INTEGRINS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 07/212,573
FILING DATE: 28-JUN-1988
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00786/068003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 5138 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 95...3604
US-08-476-062A-39

Query Match 72.2%; Score 13; DB 2; Length 5138;
Best Local Similarity 100.0%; Pred. No. 50;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGCACC 13

Db 4209 GGCTGGTGCACC 4197

Search completed: August 15, 2003, 11:00:16
Job time : 43.025 secs

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OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 20:57:44 ; Search time 113.4 Seconds
(without alignments)
428.482 Million cell updates/sec

Title: US-10-074-620-1
Perfect score: 18
Sequence: 1 ggcgtggtgcacctgtta 18

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 2552756 seqs, 1349719017 residues

Word size : 0

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 120 summaries

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- 14: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT.*
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- 19: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.*
- 20: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.*
- 21: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.*
- 22: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001.DAT.*
- 23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*
- 24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT.*
- 25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100.0	18	24	ABA00268	EBNA-2 primer-Dos
2	88.9	20	16	AA091011	Primer binding to Epstein Barr virus
3	88.9	50	15	AA069796	EBV L2 (start site
4	88.9	50	18	AA164258	Test sequence from DNA binding molecu
5	88.9	50	20	AA173546	Human secreted pro
6	88.9	435	21	AA001776	Lung small cell ca
7	88.9	455	24	AA561522	
8	88.9				

9	88.9	675	22	AA189104	Human polynucleoti
10	88.9	1142	19	AAV43611	Human secreted pro
11	88.9	1152	19	AAV62754	Human secreted pro
12	88.9	1152	24	ABO92057	Human polynucleoti
13	88.9	1217	21	AA077733	Human cancer assoc
14	88.9	1278	20	AA217770	Human gene expres
15	88.9	2382	25	ACC46555	Human dltip secret
16	88.9	2721	6	AA500114	DNA sequence encod
17	88.9	5331	16	AA704821	EBV gp350/220 CDNA
18	88.9	13559	22	AA151544	Human nervous syst
19	83.3	65	24	ABN52794	Mouse spliced tran
20	83.3	609	23	ABV56544	Human prostate exp
21	83.3	616	21	AAE11311	Aspergillus niger
22	83.3	1419	22	AAH45451	Murine epilepsy-ca
23	83.3	1699	24	AB211825	Human polynucleoti
24	83.3	1808	18	AAV02313	C16N gene for prom
25	83.3	2293	21	AA244730	Human C16N-1 cDNA
26	83.3	2293	21	AA240179	Human C16N-1 cDNA
27	83.3	2301	21	AA244731	Human C16N-2 cDNA
28	83.3	2301	21	AA240180	Human C16N-2 cDNA
29	83.3	2952	20	AA233584	Human breast tumou
30	83.3	3035	21	AA077831	Human cancer assoc
31	83.3	3035	22	AAH34809	Human colon cancer
32	83.3	3065	18	AAV02312	C16N gene for prom
33	83.3	3337	21	AA244729	Murine C16N-2 cDNA
34	83.3	3337	21	AA240178	Mouse C16N-2 codin
35	83.3	3674	21	AA244728	Murine C16N-1 cDNA
36	83.3	3674	21	AA240177	Mouse C16N-1 codin
37	83.3	4537	25	ABX63337	Human CDNA #337 di
38	83.3	6501	22	AA506682	Cocillibolus heter
39	83.3	6550	24	AB568409	Fungal peptide syn
40	83.3	6553	24	AB568449	DNA encoding C. he
41	83.3	6672	24	AB168121	Ovary cancer relat
42	83.3	7702	21	AA291308	Human protein tyro
43	83.3	7702	21	AA259133	Lar tyrosine phosph
44	83.3	7705	22	AAH98405	Human EST-derived
45	83.3	7705	22	AA522684	Human CDNA encodin
46	83.3	7741	22	AA522448	Human CDNA encodin
47	83.3	7945	23	ABY27897	Human prostate exp
48	83.3	16831	23	AA559607	Propionibacterium
49	83.3	42115	24	AB568452	C. heterotrophus
50	83.3	42115	24	AB568452	Rice leaf EST, SBO
51	77.8	329	25	AA180980	Human polynucleoti
52	77.8	370	24	AB180865	Human ovarian can
53	77.8	383	22	AAH99005	Murine EST-derived
54	77.8	411	25	ABX50538	Bovine EST associa
55	77.8	454	22	AAH81534	DNA encoding novel
56	77.8	455	22	AAH81534	Human differential
57	77.8	465	22	ABA52087	Human foetal liver
58	77.8	465	22	ABA21899	Probe #365 for gen
59	77.8	465	22	AAK00369	Human brain expres
60	77.8	465	22	AAK25812	Human bone marrow
61	77.8	465	22	AA110441	Probe #374 for gen
62	77.8	465	22	AA131694	Probe #380 used to
63	77.8	465	22	AA100377	Probe #368 used to
64	77.8	465	22	AB525400	Human liver single
65	77.8	465	23	AB500393	Human genome-deliv
66	77.8	1109	24	ABR35284	Human CDNA encodin
67	77.8	1220	22	AA546203	Human DNA encodin
68	77.8	1220	25	ACA57961	Human PRO19626 CDN
69	77.8	1220	25	ABX98431	Human CDNA encodin
70	77.8	1220	25	ABX98431	Human CDNA encodin
71	77.8	1220	25	ABX98431	Novel human secret
72	77.8	1220	25	ABX98431	Human secreted/tra
73	77.8	1220	25	ABX98431	Human PRO polynuc
74	77.8	1220	25	ABX78806	Human CDNA encodin
75	77.8	1220	25	ABX78806	Human CDNA encodin
76	77.8	1220	25	ABX78806	Human PRO polynuc
77	77.8	1220	25	ABX78806	Human CDNA encodin
78	77.8	1220	25	ABX78806	Human CDNA encodin
79	77.8	1548	21	AA433772	Zea mays DNA fragm
80	77.8	2017	22	AAH95525	Human CDNA encodin
81	77.8	2970	22	AA047350	Human protein enco
					Human transporter

82	14	77.8	3069	24	ABD36308	Human transporter
83	14	77.8	3088	22	ABZ35367	Human gene express
84	14	77.8	3913	22	AAH17826	Human cDNA sequenc
85	14	77.8	4447	23	AAH72881	DNA encoding novel
86	14	77.8	4614	23	AA572259	DNA encoding novel
87	14	19628	22	AAK71839	Human immune/haema	
88	14	77.8	32107	22	AA532249	Human DNA repair a
89	14	77.8	32187	24	AB567552	Novel human DNA re
90	14	58837	24	ABK52612	Human CD45 gene	
91	14	77.8	122888	24	ABK35559	Human CD45 difere
92	13	72.2	60	24	ABN40753	Human spliced tran
93	13	72.2	145	23	AA558139	CDNA #815 encoding
94	13	72.2	261	24	ABK69167	Human phosphorilas
95	13	72.2	294	21	AA525233	Human secreted pro
96	13	72.2	300	20	AAZ14789	Human gene express
97	13	72.2	308	20	AAK28130	Human follistatin
98	13	72.2	308	22	AA02679	HAQ6528 CDNA clon
99	13	72.2	350	22	AAK61553	Human immune/haema
100	13	72.2	352	22	AAK76174	Human immune/haema
101	13	72.2	352	22	AAK76175	CDNA encoding lung
102	13	72.2	361	25	ABK39121	Human lung adenoca
103	13	72.2	361	25	ACA11450	Lung cancer therap
104	13	72.2	361	25	ACA02636	Human brain Expres
105	13	72.2	369	14	AAQ59915	Colon adenocarcino
106	13	72.2	371	24	ABK29789	Human cardiovascular
107	13	72.2	375	22	AA536753	CDNA #721 encoding
108	13	72.2	375	22	AA536753	Human cardiovascu
109	13	72.2	378	23	AA558045	CDNA #721 encoding
110	13	72.2	413	22	AA525389	Human ovarian PCR-
111	13	72.2	414	21	AA5798247	Human colon cancer
112	13	72.2	445	23	AA574105	DNA encoding novel
113	13	72.2	460	23	AA584880	DNA encoding novel
114	13	72.2	495	22	AA525208	Human ovarian PCR-
115	13	72.2	495	22	AAH83855	Human ovarian tumor
116	13	72.2	504	21	AAH79302	Human ovarian tumor
117	13	72.2	506	22	AA524619	Pinus radiata cell
118	13	72.2	506	22	AAH83242	Human ovarian PCR-
119	13	72.2	527	22	AA105183	Human reproductive
120	13	72.2	527	23	ABL98070	Human testicular a

ALIGNMENTS

RESULT 1
ID ABA00268 standard, DNA, 18 BP.
XX ABA00268;
XX
XX
XX 29-NOV-2002 (first entry)
XX
XX
XX EBNA 2 primer, Position 90030:90049.
XX
XX
XX Primer; amplify; PCR; probe; detection; Epstein-Barr virus; EBV; ss.
XX
XX Epstein-Barr virus.
XX
XX WO200264842-A2.
XX
XX
XX 22-AUG-2002.
XX
XX
XX 13-FEB-2002; 2002WO-US04339.
XX
XX
XX 13-FEB-2001; 2001US-268439P.
XX
XX
XX (CHIL-) CHILDRENS HOSPITAL RES FOUND.
XX
XX
XX Witte DP, Groen PA;
XX
XX WPI: 2002-667015/71.
XX
XX
XX New compositions comprising nucleic acid sequences which specifically

PT hybridizes to Epstein-Barr virus (EBV) nucleic acid, for detecting EBV
PT in clinical specimens to determine patients at high risk of to
PT developing EBV infections -
PS Claim 1; Page 44; 59pp; English.
XX
XX The sequences given in ABA00268-75 are primers and probes which were
CC used in the compositions of the invention for the detection of
CC Epstein-Barr virus (EBV). The compositions comprise at least one
CC purified and isolated oligonucleotide consisting of a nucleic acid
CC sequence which complements and specifically hybridizes to EBV nucleic
CC acid. The oligonucleotide sequences and compositions comprising them
CC are useful for detecting EBV in clinical specimens to determine
CC patients who are at high risk to develop serious and costly medical
CC complications, and allow for better clinical management of these
CC patients by earlier recognition of their infection status. The
CC oligonucleotide sequences may also be used to amplify EBV DNA
CC sequences. The use of the oligonucleotide sequences in the assay for
CC detecting EBV has a broad dynamic range of detection from less than
CC 10-100000000 copies of EBV DNA, is less labour intensive requiring only
CC one reaction tube for the EBV determination, highly sensitive, accurate
CC and has a rapid turn around time with assays that are completed,
CC including amplification, probe specific hybridization, and calculation
CC of copy number in less than 1 hour. The method may be adapted to
CC automated systems.
XX
SQ Sequence 18 BP; 2 A; 4 C; 6 G; 6 T; 0 other;
Query Match 100.0%; Score 18; DB 24; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGTTA 18
Db 1 GGCTGGTGCACCTGTTA 18
RESULT 2
ID ABA01011 standard, DNA, 20 BP.
XX ABA01011;
XX
XX
XX 01-FEB-1996 (first entry)
XX
XX
XX Primer binding to 5' end of EBV nuc antigen gene.
XX
XX
XX Primer; PCR; amplification; DNA polymerase; exonuclease; Pfu; Tag;
XX
XX Klenow fragment; T4; T7; Deep Vent; synthesis; mismatch; human; antibody;
XX
XX heavy chain variable region; ss.
XX
XX
XX Synthetic.
XX
XX WO9516028-A1.
XX
XX 15-JUN-1995.
XX
XX
XX 07-DEC-1994; 94WO-US14065.
XX
XX
XX 16-FEB-1994; 94US-0197791.
XX
XX 08-DEC-1993; 93US-0164290.
XX
XX (STRA-) STRATAGENE.
XX
XX Mullinax RL, Sarge JA;
XX
XX WPI: 1995-224316/29.
XX
XX
XX Compen. useful for polynucleotide synthesis and cyclical
PT amplification - comprising a mixt. contg. an enzyme with 3'-5'
PT exonuclease activity and a DNA polymerase with less 3'-5'
PT exonuclease activity than the enzyme
XX

PS Examples; Page 35; 66pp; English.

CC Primers AA090984-091028 are examples of primers for testing a novel
 CC composition for polynucleotide synthesis comprising a DNA polymerase
 CC with high 3'-5' exonuclease activity in conjunction with a DNA polymerase
 CC respectively. Other DNA polymerases containing high 3'-5' exonuclease
 CC activity include E.coli DNA polymerase I, Klenow fragment, T4, T7, Vent
 CC 3'-5' exonuclease activity is designed to overcome the inability of DNA
 CC polymerases with low 3'-5' exonuclease activities to initiate synthesis
 CC from primers containing 3' terminal mismatches, e.g. due to errors
 CC This primer binds to a region at the 5' end of the Epstein-Barr
 CC virus nucleic acid gene.

XX Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 other;

SO Query Match 88.9%; Score 16; DB 16; Length 20;
 Best Local Similarity 100.0%; Pred. No. 5.8;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
 DB 1 GGCTGGTGCACCTGT 16

RESULT 3
 AA069796/c
 ID AA069796 standard; DNA; 50 BP.

AC AA069796;
 XX
 DT 25-MAR-2003 (updated)
 DT 06-MAR-1995 (first entry)
 XX
 DE Epstein Barr virus R1 L2 (start site 90021), target region.

XX DNA protein-binding assay; test sequence; screening sequence;
 XX promoter; target; TATA box; Herpes Simplex Virus; HSV;
 XX origin of replication; UL9; transcription factor; TFIID; ds.
 OS Synthetic.
 XX
 PN WO9414980-A1.
 PD 07-JUL-1994.
 XX
 PF 20-DEC-1993; 93WO-US12388.
 XX
 PR 23-DEC-1992; 92US-0996783.
 PR 17-SEP-1993; 93US-0123936.
 XX
 PA (GENE-) GENELABS TECHNOLOGIES INC.
 PI Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
 DR WPI; 1994-234711/28.
 XX
 PT Sequence-directed DNA-binding molecules - useful in
 PT pharmaceuticals and as molecular reagents
 PS Claim 28; Page 485; 587pp; English.

CC A DNA protein-binding assay is provided, useful for screening
 CC libraries of synthetic or biological cpds. for their ability
 CC to bind DNA test sequences. The assay is versatile in that any
 CC number of test sequences can be tested by placing the test sequence
 CC adjacent to a defined protein-binding screening sequence. Binding
 CC of moles. to these test sequences changes the binding characteristics
 CC of the protein mol. to its cognate binding sequence. When such a mol.
 CC binds the test sequence, the equilibrium of the DNA:protein complexes
 CC is disturbed, generating changes in the concentration of free DNA probe.

CC One application of this method is to eucaryotic general transcription
 CC factors (e.g. TFIID), where the target region is typically selected
 CC from DNA sequences adjacent to the binding site for the eucaryotic
 CC transcription factor. Numerous exemplary test sequences are given:
 CC the sequences in AA069251-731 and AA069850 correspond to promoter
 CC targets (typically, TATA box-contg. sites) for human genes and the
 CC sequences in AA069732-849 correspond to promoter targets for viral genes.
 CC The test sequences may also be randomly generated. DNA:protein
 CC interaction may be used for screening purposes, e.g. the Herpes Simplex
 CC virus (HSV) origin of replication and UL9 (see AA069851-52, AA069865 and
 CC AA069891).
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 SO Sequence 50 BP; 18 A; 14 C; 10 G; 8 T; 0 other;

Query Match 88.9%; Score 16; DB 15; Length 50;
 Best Local Similarity 100.0%; Pred. No. 5.7;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
 DB 41 GGCTGGTGCACCTGT 26

RESULT 4
 AAT64258/c
 ID AAT64258 standard; DNA; 50 BP.

AC AAT64258;
 XX
 DT 25-MAR-2003 (updated)
 DT 17-MAR-1997 (first entry)
 XX
 DE EBV L2 (start site 90021) TFIID binding site.

XX Duplex DNA; target region; binding characteristic; DNA binding protein;
 XX TFIID; transcription factor; binding site; inhibition; enhance;
 XX cancer; inherited genetic disorder; ds.
 OS Epstein-barr virus.
 XX
 PN US5578444-A.
 PD 26-NOV-1996.
 XX
 PF 20-DEC-1993; 93US-0171389.
 XX
 PR 20-DEC-1993; 93US-0171389.
 PR 27-JUN-1991; 91US-0723618.
 PR 23-DEC-1992; 92US-0996783.
 PR 17-SEP-1993; 93US-0123936.
 XX
 PA (GENE-) GENELABS TECHNOLOGIES INC.
 PI Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
 DR WPI; 1997-020402/02.
 XX
 PT Altering binding characteristics of DNA binding proteins to duplex
 PT DNA - by attaching specific small cpd. to target region close to the
 PT protein's binding site, useful in treatment of viral disease, cancer
 PS etc
 PS Claim 6; Column 377; 264pp; English.

CC The sequences given in AAT63713-4312 represent duplex DNA's which act
 CC as target regions in the method of the invention. The method for
 CC altering the binding characteristics of a DNA-binding protein to duplex
 CC DNA comprises contacting the duplex DNA with a small molecule which
 CC binds sequence-specifically to a target region, where, when the small
 CC molecule is bound to the target region, it is adjacent to, but not
 CC overlapping by more than 4 bp, a binding site for a DNA-binding protein.
 CC The small molecule is added at a concentration effective to alter the

SQ Sequence 50 BP; 18 A; 14 C; 10 G; 8 T; 0 other;

Qy	1	GGCTGGTGTACACTGT	16
Dd	41	GGCTGGTGTACACTGT	26

AA17546/c
ID AA17546 standard; DNA; 50 BP.

AC AAX17546;

DT 06-MAY-1999 (first entry)

DE Test sequence from Epstein Barr virus L2 (start site 90021)

KM Test sequence; DNA-binding molecule; screening sequence; human; nucleic acid amplification; target; viral; ds.

OS Epstein-Barr virus.

PN US5869241-A.

PD 09-FEB-1999.

PF 07-JUN-1995; 95US-0475228.

PR 20-DEC-1993; 93US-0171389.

PR 23-DEC-1992; 92US-0996783.

PR 07-JUN-1995; 95US-0475228.

PA (GENE-) GENELABS TECHNOLOGIES INC.

PI Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;

DR WPI; 1999-152755/13.

PT Determination of DNA sequence preference of a DNA-binding molecule -
PT based on inhibition of binding of protein to oligonucleotide
PT sequence attached to test sequence

PS Claim 3; Columns 379-380; 270pp; English.

CC Sequences AX17001 to AX17600 represent specifically claimed target
CC test sequences that are used in the method of the invention of
CC determining the DNA sequence preference of a DNA-binding molecule. The
CC method comprises: (1) adding a test molecule and a DNA-binding protein to
CC a mixture of duplex DNA test oligonucleotides, each of the test
CC oligonucleotides having a test sequence adjacent to a screening sequence,
CC where the screening sequence binds to the DNA-binding protein with a
CC binding affinity that is independent of the DNA sequence of the test

Sequence 50 BP; 18 A; 14 C; 10 G; 8 T; 0 other,

Query Match	88.9%	Score 16:	DB 20;	length 50;
Best Local Similarity	100.0%	Pred. No. 5.7;		
Matches 16;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

QY	1 GGCTGGTGTACCTGT 16
Db	41 GCGTGGTGTACCTGT 26

ABK83037/c
ID ABK83037 standard; DNA; 50 BP.

AC ABK83037;

DT 27-AUG-2002 (first entry)

DE DNA binding molecule screening method test sequence #546.

KW DNA binding molecule screening; inhibition of transcription;

KW cardiovascular; respiratory; gastrointestinal; endocrine; metabolic
KW rheumatic; immunological; haematological; neurological;

KW urogenital disorder; ss.

OS Synthetic.

PN US6384208-B1

PD 07-MAY-2002.

PF 15-JUL-1999; 99US-0354947

PR 20-DEC-1993; 93US-0171389

PR 27-JUN-1991; 91US-0723618

PR 17-SEP-1993; 93US-0123936

PA (GENE-) GENELABS TECHNOLOGIES INC

PI Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;

DR WPI; 2002-442819/47

PT Decreasing transcriptional activity of genes for treating infections or
PT cancer, by administration of an agent that binds to two non-overlapping
PT regions of the gene -

ps Example 15; SEQ ID No 546; 98pp; English

The invention relates to a method of decreasing transcriptional activity in a duplex deoxyribonucleic acid (DNA) template (T1) comprising a binding agent comprising at least one small duplex DNA-binding molecule (T2) coupled to at least one other small duplex-binding molecule that binds to a non-overlapping region of target sequence (TS). The method is useful for inhibiting transcription of a

CC range of disease-related genes for treating infections (by viruses,
CC including human immunodeficiency virus, bacteria, fungi, protozoa
CC and parasites), cancer, cardiovascular, respiratory, gastrointestinal,
CC endocrine/metabolic, rheumatic/immunological, hematological,
CC neurological, psychiatric, dermatological, ophthalmological,
CC musculo-skeletal, genetic or urogenital disorders. The method provides
CC sequence-specific inhibition of transcription of pathological genes
CC without affecting transcription of cellular genes regulated by the same
CC transcription factor, and can be applied to regulation of any gene.
CC ABK82492-ABK83155 represent DNA binding molecule test sequences used in
CC the method of the invention.

XX SQ Sequence 50 BP; 18 A; 14 C; 10 G; 8 T; 0 other;

Query Match 88.9%; Score 16; DB 24; Length 50;

Best Local Similarity 100.0%; Pred.No.5.7;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16

DB 41 GGCTGGTGCACCTGT 26

RESULT 7

AAC01776/c

ID AAC01776 standard; cDNA; 435 BP.

XX AC AAC01776;

XX DT 06-OCT-2000 (first entry)

XX DE Human secreted protein 5' EST, SEQ ID NO: 1774.

XX KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
XX gene therapy; chromosome mapping; ss.

XX OS Homo sapiens.

XX PN EP1033401-A2.

XX PD 06-SEP-2000.

XX PF 21-FEB-2000; 2000EP-0200610.

XX PR 26-FEB-1999; 99US-0122487.

XX PA (GEST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Giordano J;

XX MPI; 2000-500381/45.

XX P-PSDB; AAG01770.

XX PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
XX obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
XX diagnostic, forensic, gene therapy and chromosome mapping procedures -
XX Claim 1; SEQ ID 1774; 71bp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from
XX cDNAs encoding secreted proteins. An ORF has been identified within the
XX sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
XX derived from 30 different tissues. EST sequences usually correspond
XX mainly to the 3' untranslated region (UTR) of the mRNA because they are
XX often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
XX well suited for isolating cDNA sequences derived from the 5' ends of
XX mRNAs and even in those cases where longer cDNA sequences have been
XX obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
XX mRNAs with intact 5' ends and can therefore be used to obtain full length
XX cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
XX gene therapy and chromosome mapping procedures. They are used to obtain
XX upstream regulatory sequences and to design expression and secretion
XX vectors.

XX SQ Sequence 435 BP; 105 A; 114 C; 133 G; 79 T; 4 other;

Query Match 88.9%; Score 16; DB 21; Length 435;

Best Local Similarity 100.0%; Pred.No.5.6;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16

DB 186 GGCTGGTGCACCTGT 171

RESULT 8

AAS61522/c

ID AAS61522 standard; cDNA; 455 BP.

XX AC AAS61522;

XX DT 29-JAN-2002 (first entry)

XX DE Lung small cell carcinoma antigen, cDNA #63.

XX KW Human; cytostatic; antitumour; lung small cell cancer antigen;
XX tumour; lung cancer; ss.

XX OS Homo sapiens.

XX PN WO200177168-A2.

XX PD 18-OCT-2001.

XX PF 11-APR-2001; 2001WO-US11859.

XX PR 11-APR-2000; 2000US-196780P.

XX PR 21-JUN-2000; 2000US-21381P.

XX PR 01-SEP-2000; 2000US-229763P.

XX PR 05-SEP-2000; 2000US-230629P.

XX PR 14-SEP-2000; 2000US-232565P.

XX PR 19-DEC-2000; 2000US-257037P.

XX PR 08-JUN-2001; 2001US-260796P.

XX PA (CORI-) CORIXA CORP.

PI Lodes MJ, Wang T, Mohamath R, Indirias CY;

XX MPI; 2002-010896/01.

XX Claim 1; Page 146; 295pp; English.

XX The invention relates to novel isolated lung small cell cancer antigen
XX polynucleotides (I) and polypeptides (II) used in a method of detecting
XX cancer in a patient. The method is optionally performed by
XX utilising oligonucleotides (III), where the biological sample
XX from the patient is contacted with (III), detecting the amount of
XX polynucleotide hybridised to (III) in the sample and comparing the
XX amount of polynucleotide to a predetermined cut-off value and thereby
XX determining cancer in a patient. (I), (II) or antigen-presenting cells
XX expressing (II) is useful for stimulating and/or expanding T cells
XX specific for a tumour protein. The method comprises contacting T cells
XX with one of the components under conditions to permit the stimulation
XX and/or expansion of the cells. A composition comprising (I) is useful for
XX stimulating an immune response in a patient and for inhibiting the
XX development of a cancer especially lung cancer in a patient. An
XX isolated T cell population is useful for removing tumour cells from the
XX biological sample and for inhibiting the development of cancer in a
XX patient. AAS61460-AAS61874 represent novel human lung small cell
XX cancer antigen coding sequences of the invention.

XX SQ Sequence 455 BP; 122 A; 116 C; 138 G; 78 T; 1 other;

Query Match 88.9%; Score 16; DB 24; Length 455;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGTCACCTGT 16
 DB 177 GGCTGTCACCTGT 162

RESULT 9

AA189104
 ID AA189104 standard; cDNA; 675 BP.

XX AA189104;

DT 06-NOV-2001 (first entry)

DE Human polynucleotide SEQ ID NO 9164.

XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;

KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;

KM tissue growth factor; immunomodulatory; cancer; leukaemia;

XX nervous system disorders; arthritis; inflammation; ss.

OS Homo sapiens.

PN WO200164835-A2.

PD 07-SEP-2001.

PF 26-FEB-2001; 2001WO-US04927.

XX 28-FEB-2000; 2000US-0515126.

PR 18-MAY-2000; 2000US-0577409.

XX (HYSE-) HYSEQ INC.

PA Tang YT, Liu C, Drmanac RT;

XX WPI; 2001-514838/56.

DR P-PSDB; AA009173.

XX Isolated nucleic acid and polypeptides, useful for preventing

PT diagnosing and treating e.g. leukaemia, inflammation and immune

PT disorders -

XX Claim 1; SEQ ID NO 9164; 1399pp + Sequence Listing; English.

XX The invention relates to human polynucleotides (AA179941-AA193841) and

CC the encoded proteins (AA000010-AA013910) that exhibit activity relating to

CC cytokine, cell proliferation or cell differentiation or which may induce

CC production of other cytokines in other cell populations. The

CC polynucleotides and polypeptides are useful in gene therapy, vaccines or

CC peptide therapy. The polypeptides have various cytokine-like activities,

CC e.g. stem cell growth factor activity, haematopoiesis regulating

CC activity, tissue growth factor activity, immunomodulatory activity and

CC activin/inhibin activity and may be useful in the diagnosis and/or

CC treatment of cancer, leukaemia, nervous system disorders, arthritis and

CC inflammation.

CC Note: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 675 BP; 189 A; 165 C; 147 G; 172 T; 2 other;

QY Query Match 88.9%; Score 16; DB 22; Length 675;

Best Local Similarity 100.0%; Pred. No. 5.5;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 10
 AA43611/C
 ID AA43611 standard; DNA; 1142 BP.

XX AA43611;

DT 24-SEP-1998 (first entry)

DE Human secreted protein 11 encoding DNA.

XX Secreted protein; human; cell proliferation; cytokine activity;

KW tissue growth; cellular differentiation; regeneration; activin;

KM inhibin; chemotactic; haemostatic; thrombolytic; tumour inhibition;

XX anti-inflammatory activity; biomarker; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 33..788

XX /tag= a

XX /product= "human secreted protein"

PR 11-DEC-1997; 97WO-US22787.

XX 18-JUN-1998.

PA (CHIR) CHIRON CORP.

PI Escobedo J, Garcia P, Hu Q, Kothakota S, Williams LT;

XX WPI; 1998-348453/30.

DR P-PSDB; AA63691.

XX Secreted human polypeptides - having cytokine, cell proliferation or

PT differentiation, activin or inhibin, tumour inhibition or

PT anti-inflammatory activities

XX Claim 6; Page 38; 78pp; English.

XX This DNA encodes a human secreted protein. The specification provides

CC secreted protein sequences (AA63681 to AA63699) encoded by the nucleic

CC acid sequences shown in AA43611 to AA43619. The invention provides a

CC method of identifying a secreted polypeptide which is modified by rough

CC microsomes. The secreted proteins can be used in assays to determine

CC biological activities, such as cytokine, cell proliferation, or cellular

CC differentiation activities, tissue growth or regeneration, activin or

CC inhibin activity, chemotactic or chemokinetic activity, haemostatic or

CC thrombolytic activity, receptor/ligand activity, tumour inhibition, or

CC anti-inflammatory activity. The proteins can also be used as

CC biomarkers, to identify tissues or cell types which express the proteins,

CC or a stage- or disease-specific alteration in protein expression. They

CC can be used in protein interaction assays, to identify ligands or binding

CC proteins. Compounds which affect the biological activities of the

CC secreted proteins or their ability to interact with specific ligands can

CC be identified using the proteins in screening assays. The proteins and

CC antibodies that bind specifically to the protein can also be used to

CC design diagnostic tests and therapeutic compositions for diseases which

CC may be associated with altered expression of these proteins. Fusion

CC proteins comprising, e.g. signal sequences or transmembrane domains of

CC the proteins can be used to target other protein domains to cellular

XX membrane or they can be secreted extracellularly.

QY Query Match 88.9%; Score 16; DB 19; Length 1142;

Best Local Similarity 100.0%; Pred. No. 5.5;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
 |||||
 DB 159 GGCTGGTGCACCTGT 144

RESULT 11
 AAV62754/c
 ID AAV62754 standard; cDNA; 1152 BP.

XX AAV62754;

XX 15-FEB-1999 (first entry)

XX Human secreted protein clone fml50_1 cDNA.

XX Secreted protein; human; fml50_1; ds.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 11..973

XX FT /*tag= a

XX WO9846757-A2.

XX 22-OCT-1998.

XX 14-APR-1998; 98MO-US07999.

XX 13-APR-1998; 98US-0059487.

XX 15-APR-1997; 97US-0843374.

XX (GENE) GENETICS INST INC.

XX Agostino MJ, Jacobs K, Lavallie ER, McCoy JM, Merberg D,

XX Racie LA, Spaulding V, Treacy M;

XX P-PSDB; AAM74728.

XX WPI; 1998-568731/48.

XX Claim 34; Page 95; 120pp; English.

XX Full-length cDNA clone fml50_1 includes an open reading frame

XX encoding a human secreted protein (see AAM74728). It was isolated

XX from a human adult brain cDNA library using methods which are

XX selective for cDNAs encoding secreted proteins, or was identified

XX as encoding a secreted or transmembrane protein on the basis of

XX computer analysis of the amino acid sequence of the encoded protein.

XX It shows some similarity to database sequences. The invention

XX provides polynucleotides (see AAV62746-55) from human foetal brain,

XX adult testis, adult brain, adult kidney and foetal kidney (all

XX deposited as composite clone ATCC 98404), which encode human

XX secreted proteins (see AAM74720-29). The polynucleotides and

XX make them suitable for treating, preventing or ameliorating medical

XX conditions in humans and animals, although no supporting data are

XX given. Suggested activities include nutritional activity, immune

XX stimulating (e.g. as vaccines) or suppressing activity,

XX haemostasis regulating activity, tissue growth activity,

XX activin/inhibin activity, chemotactic/chemokinetic activity,

XX haemostatic and thrombolytic activity, receptor/ligand activity,

XX antiinflammatory activity, cadherin/tumour invasion suppressor

XX activity, and tumour inhibition activity. The polynucleotides are

XX also stated to be useful for gene therapy, and can be used in

XX recombinant production of the polypeptides.

XX Sequence 1152 BP; 342 A; 329 C; 317 G; 164 T; 0 other;

XX Query Match 88.9%; Score 16; DB 19; Length 1152;

Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
 |||||
 DB 137 GGCTGGTGCACCTGT 122

RESULT 12
 ABQ92057/c
 ID ABQ92057 standard; cDNA; 1152 BP.

XX ABQ92057;

XX 04-OCT-2002 (first entry)

XX Human polynucleotide SEQ ID NO 54.

XX Human; cytosolic; antirheumatic; antiarthritic; vulnerary; analgesic;

XX antiinflammatory; antibacterial; immunosuppressive; antiparkinsonian;

XX neuroprotective; nootropic; osteopathic; haemostatic; vasotropic;

XX antitumor; fungicide; antidiabetic; antiaesthetic; antiallergic;

XX immunostimulant; antiparasitic; secreted protein; transmembrane protein;

XX cytokine; cell proliferation; cell differentiation; autoimmune disease;

XX stem cell; growth factor; nervous system disease; neuropathy;

XX Alzheimer's disease; Parkinson's disease; Huntington's disease;

XX osteoporosis; severe combined immunodeficiency; SCID; infection;

XX multiple sclerosis; rheumatoid arthritis; gene therapy; gene; ss.

XX Homo sapiens.

XX US2002065394-A1.

XX 30-MAY-2002.

XX 22-DEC-2000; 2000US-0745763.

XX 18-MAR-1998; 98US-0040963.

XX (JACO) JACOBS K.

XX (MCCO) MCCOY J M.

XX (LAVA) LAVALLIE E R.

XX (COLL) COLLINS-RACIE L A.

XX (EVAN) EVANS C.

XX (MERB) MERBERG D.

XX (TREAC) TREACY M.

XX (SPAUL) SPAULDING V.

XX Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C,

XX Merberg D, Treacy M, Spaulding V;

XX WPI; 2002-562343/62.

XX P-PSDB; ABP61843.

XX Novel secreted or transmembrane protein and polynucleotide encoding the

XX protein, useful for diagnosis and treatment of neurological disorders,

XX cancer, autoimmune diseases, bone disorders and lung or liver fibrosis

XX Claim 189; Page 195-196; 284pp; English.

XX The invention relates to human secreted or transmembrane protein (I),

XX their fragments and is encoded by specific complementary deoxyribonucleic

XX acid (cDNA) inserts (II), where the protein is substantially free from

XX other mammalian proteins. (I) are useful for preventing, treating or

XX ameliorating a medical condition, especially immunological treatment or

XX prevention of tumors. (I) exhibits activity relating to angiogenesis,

XX cytokine, cell proliferation, cell differentiation, antiinflammatory,

XX stem cell growth factor activity and activin or inhibin-related

XX activities. (I) can be used to manipulate stem cells in culture to give

XX rise to neuroepithelial cells that can be used to augment or replace

XX cells damaged by illness, autoimmune disease, accidental damage or

XX genetic disorders. (I) induces the proliferation of neural cells and

CC regeneration of nerve and brain tissue and is useful for the treatment of
 CC central and peripheral nervous system diseases and neuropathies, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis. (I) is involved in chemotactic or chemokinetic
 CC activity, regulation of haematopoiesis and is useful for treating myeloid
 CC or lymphoid cell disorders, platelet disorders such as thrombocytopenia
 CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve
 CC tissue growth and in tissue repair, healing of burns, incisions, ulcers,
 CC for treating osteoporosis, osteoarthritis, bone degenerative disorders or
 CC periodontal disease. (II) is also useful for gut protection or
 CC regeneration and treatment of lung or liver fibrosis, reperfusion injury
 CC in various tissues, various immune deficiencies and disorders including
 CC severe combined immunodeficiency (SCID), bacterial or fungal infections,
 CC autoimmune disorders e.g. multiple sclerosis, rheumatoid arthritis,
 CC diabetes mellitus, myasthenia gravis, allergic reactions and conditions,
 CC such as asthma or other respiratory problems. (II) is useful to express
 CC recombinant protein, as markers for tissues in which the corresponding
 CC protein is preferentially expressed and in gene therapy. The present
 CC sequence is that of a polynucleotide of the invention.
 CC
 SQ Sequence 1152 BP; 342 A; 329 C; 317 G; 164 T; 0 other;
 Query Match 88.9%; Score 16; DB 24; Length 1152;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GGCTGGTGCACCTGT 16
 Db 137 GGCTGGTGCACCTGT 122
 RESULT 13
 AAC77733 standard; cDNA; 1217 BP.
 AC AAC77733;
 DT 08-FEB-2001 (first entry)
 DE Human cancer associated gene sequence SEQ ID NO:127.
 XX
 XX Human; cancer associated gene; cancer antigen; detection; cancer;
 XX diagnosis; cytostatic; proliferative; vulnery; immunomodulator;
 XX anti-diabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral;
 XX anti-inflammation; antithyroid; antiallergic; antibacterial; cardiac;
 XX dermatological; neuroprotective; thrombolytic; coagulant; nootropic;
 XX vasotropic; antipsoriatic; antiangiogenic; gene therapy; inflammation;
 XX immune disorder; haematopoietic cell disorder; autoimmune disorder;
 XX allergic reaction; graft versus host disease; organ rejection;
 XX haemostatic; thrombolytic; cardiovascular disorder; infection;
 XX neurological disease; drug screening; ss.
 OS Homo sapiens.
 XX
 XX WO200055350-A1.
 XX
 XX 21-SEP-2000.
 XX
 XX 08-MAR-2000; 2000MO-US05882.
 XX
 XX 12-MAR-1999; 99US-0124270.
 XX
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX
 XX Rosen CA, Ruben SM;
 XX
 XX WPI; 2000-587533/55.
 XX P-PSDB; AAB3524.
 XX
 XX Novel isolated nucleic acids comprising sequences encoding peptides
 XX useful for treating or diagnosing e.g. cancer -
 XX
 XX Claim 1; Page 709; 2352pp; English.

XX
 CC AAC77607 to AAC78448 encode the human cancer associated proteins given
 CC in AAB43398 to AAB44239. The proteins can have activities based on the
 CC tissues and cells the genes are expressed in. Example of activities
 CC include: cytostatic; proliferative; vulnery; immunomodulator;
 CC anti-diabetic; antiasthmatic; antirheumatic; antiallergic; antiviral;
 CC anti-inflammation; antithyroid; antiallergic; antibacterial; cardiac;
 CC dermatological; neuroprotective; cardiac; thrombolytic; coagulant;
 CC nootropic; vasotropic; antipsoriatic; antiangiogenic; The
 CC polynucleotides and polypeptides can be used for preventing, treating or
 CC ameliorating medical conditions and diagnosing pathological conditions.
 CC Polynucleotides, polypeptides, antibodies, agonists and antagonists from
 CC the present invention may be used to treat immune disorders by activating
 CC or inhibiting the proliferation, differentiation or mobilisation of
 CC immune cells, to treat disorders of haematopoietic cells, autoimmune
 CC disorders, allergic reactions, graft versus host disease and organ
 CC rejection, modulate haemostatic or thrombolytic activity, modulate
 CC inflammation, cancers, cardiovascular disorders, neurological disease and
 CC bacterial or viral infections. The peptides, nucleotides, antibodies,
 CC agonists and antagonists may be also be used in drug screens. AAC78449 to
 CC AAC78457 and AAB44240 represent sequences used in the exemplification of
 CC the present invention.
 CC
 SQ Sequence 1217 BP; 300 A; 360 C; 367 G; 187 T; 3 other;
 Query Match 88.9%; Score 16; DB 21; Length 1217;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GGCTGGTGCACCTGT 16
 Db 235 GGCTGGTGCACCTGT 220
 RESULT 14
 AA217770
 ID AA217770 standard; cDNA; 1278 BP.
 XX
 XX AA217770;
 XX
 XX 12-OCT-1999 (first entry)
 DT
 XX Human gene expression product cDNA sequence SEQ ID NO:5243.
 XX
 XX Human; gene; gene expression product; diagnosis; therapy; probe;
 XX detection; mapping; tissue typing; profiling; forensic; cancer;
 XX genetic analysis; colorectal cancer; breast cancer; lung cancer; ss.
 XX
 XX Homo sapiens.
 OS
 XX
 XX WO9338972-A2.
 XX
 XX 05-AUG-1999.
 XX
 XX 28-JAN-1999; 99WO-US01619.
 XX
 XX 03-APR-1998; 98US-0080666.
 XX 28-JAN-1998; 98US-0072910.
 XX 24-FEB-1998; 98US-0075954.
 XX 31-MAR-1998; 98US-0080114.
 XX 03-APR-1998; 98US-0080515.
 XX
 XX (CHIR) CHIRON CORP.
 XX (HYSE-) HYSEQ INC.
 XX
 XX Ctkvenjakov R, Dickson M, Drmanac R, Drmanac S;
 XX Escobedo J, Garcia PD, Garcia V, Geise K, Innis MA,
 XX Jones WL, Kassam A, Kennedy GC, Kita D, Labat I;
 XX Lamson G, Leshkowitz D, Pot D, Randazzo F, Reinhard C;
 XX Stache-Crahn B, Suduth-Klinger J, Williams LT;
 XX
 XX WPI; 1999-494092/41.

PT Novel human genes and their expression products which are
 PT differentially expressed in different cell types
 XX
 PS Claim 1; Page 2475-2476; 2479pp; English.
 XX
 CC The present invention describes a library of human polynucleotides
 CC comprising the sequences given in AA212532 to AA217779. Also described is
 CC a method of detecting differentially expressed genes correlated with the
 CC cancerous state of a mammalian cell, comprising detecting at least one
 CC differentially expressed gene product in a test sample from a cell
 CC suspected of being cancerous, where the gene product is encoded by one
 CC of the 5248 polynucleotide sequences given in AA212532 to AA217779. The
 CC polynucleotides can be used as a source of primers and probes, which can
 CC be used for a variety of purposes, e.g. detection of expression levels,
 CC mapping, tissue typing or profiling, forensics, genetic analysis and
 CC detection of polymorphisms. Polypeptides encoded by the polynucleotides
 CC can be used for raising antibodies for experimental, diagnostic and
 CC therapeutic purposes. The polynucleotides may also be used to construct
 CC arrays for diagnostics (which may be used to determine function of an
 CC encoded protein); and to detect differences in expression levels between
 CC two cells (e.g. to identify abnormal or diseased tissue in a human, to
 CC identify a genetic predisposition or susceptibility to a disease such as
 CC cancer). The polynucleotides of the invention are especially used in the
 CC diagnosis, prognosis and management of colorectal cancer, breast cancer,
 CC and lung cancer. The polynucleotides can also be used to screen for
 CC peptide analogues and antagonists.
 CC
 SQ Sequence 1278 BP; 216 A; 383 C; 387 G; 282 T; 10 other;
 Query Match 88.9%; Score 16; DB 20; Length 1278;
 Best Local Similarity 100.0%; Pred. No. 5.5;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGCTGGTGCACCTGT 16
 DB 1118 GGCTGGTGCACCTGT 1133
 RESULT 15
 ACC46555/c
 ID ACC46555 standard; cDNA; 2382 BP.
 AC ACC46555;
 XX
 DT 02-JUN-2003 (first entry)
 XX
 XX Human dithp secreted/extracellular matrix protein-encoding cDNA.
 DE Human; dithp; diagnostic and therapeutic polynucleotide; diagnosis;
 KW cancer; cell proliferative disorder; autoimmune disorder;
 KW inflammatory disorder; infection; hormonal disorder; metabolic disorder;
 KW neurological disorder; gastrointestinal disorder; transport disorder;
 KW connective tissue disorder; drug screening; proteome analysis;
 KW gene therapy; antisense therapy; genotyping; transgenic animal; knock in;
 KW disease model; toxicological testing; transcript imaging;
 KW secreted protein; extracellular matrix; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200297031-A2.
 XX
 PD 05-DEC-2002.
 XX
 PF 27-MAR-2002; 2002MO-US10056.
 XX
 XX 28-MAR-2001; 2001US-279619P.
 PR 29-MAR-2001; 2001US-280067P.
 PR 29-MAR-2001; 2001US-280068P.
 PR 16-MAY-2001; 2001US-281280P.
 PR 17-MAY-2001; 2001US-281829P.
 PR 17-MAY-2001; 2001US-291849P.
 PR 19-JUN-2001; 2001US-299428P.
 PR 20-JUN-2001; 2001US-299776P.

PR 20-JUN-2001; 2001US-300001P.
 XX
 PA (INCY-) INCYTE GENOMICS INC.
 XX
 PI Daffo A, Jones AL, Tran AB, Dahl CR, Gierzen D, Chinn J;
 PI Dufour GE, Hillman JL, Yu JY, Tuason O, Yap PE, Anshey SR;
 PI Daugterey SC, Dam TC, Liu TF, Nguyen DA, Kleefeld Y, Gerstin EH;
 PI Peralta CH, David MH, Lewis SA, Chen AJ, Panzer SR, Harris B;
 PI Flores V, Marwaha R, Lo A, Lan RV, Urashka ME;
 XX
 DR WPI; 2003-129518/12.
 DR P-PSDB; ABR41618.
 XX
 PT Novel human diagnostic and therapeutic polypeptide useful for
 PT identifying test compound which specifically binds to a polypeptide
 PT encoded by human diagnostic and therapeutic polynucleotide, and to
 PT induce antibodies
 XX
 PS Claim 2; SEQ ID No 476; 591pp; English.
 XX
 CC The invention relates to novel human diagnostic and therapeutic
 CC polynucleotides designated dithp (ACC46080-ACC46749) and to their
 CC encoded proteins (DITHP; ABR41136-ABR41812). The invention also relates
 CC to polynucleotide sequences at least 90% identical to the dithp cDNA
 CC sequences of the invention; recombinant vectors, host cells and
 CC transgenic organisms comprising a dithp nucleic acid sequence; the
 CC recombinant production of DITHP proteins; antibodies specific for DITHP
 CC proteins; microarrays comprising dithp nucleic acid sequences; methods
 CC for detecting dithp nucleotide and protein sequences; methods of screening
 CC for compounds which specifically bind a DITHP protein; and methods of
 CC assessing the toxicity of test compounds using a dithp hybridisation
 CC probe. Dithp nucleic acid sequences and DITHP proteins may be used in the
 CC diagnosis of a wide variety of conditions including cancer and other cell
 CC proliferative disorders; autoimmune or inflammatory disorders; bacterial,
 CC viral, fungal or parasitic infections; hormonal disorders; metabolic
 CC disorders; neurological disorders; gastrointestinal disorders; transport
 CC disorders; and connective tissue disorders. They may also be used to
 CC screen for modulators of protein activity or gene expression. DITHP
 CC proteins can additionally be used in analysis of the proteome of a tissue
 CC or cell type and to induce antibodies. The dithp nucleic acids are
 CC additionally useful in somatic or germline gene therapy of the disorders
 CC mentioned above, as a source of antisense sequences, as a source of
 CC probes and primers, in genotyping and identification of individuals, in
 CC the generation of transgenic animal models of human disease or knock in
 CC humanised animals, in toxicological testing, and in transcript imaging.
 CC The present sequence represents a dithp cDNA encoding a DITHP protein
 CC which is a secreted/extracellular matrix protein.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 2382 BP; 456 A; 1032 C; 337 G; 556 T; 1 other;
 Query Match 88.9%; Score 16; DB 25; Length 2382;
 Best Local Similarity 100.0%; Pred. No. 5.4;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGCTGGTGCACCTGT 16
 DB 1869 GGCTGGTGCACCTGT 1854
 RESULT 16
 AAN50114/c
 ID AAN50114 standard; DNA; 2721 BP.
 XX
 AC AAN50114;
 XX
 DT 25-MAR-2003 (updated)
 DT 17-OCT-1991 (first entry)
 XX
 XX DNA sequence encoding Epstein-Barr virus (EBV) outer surface protein.

```

KM Epstein-Barr virus; antigen; vaccine; ss.
XX
XX Epstein-Barr virus.
XX
XX Key Location/Qualifiers
FT mat_peptide 1..2721
FT /*tag= a
FT /label= EBV surface protein antigen
XX
XX EP151079-A.
XX
XX 07-AUG-1985.
XX
XX 28-JAN-1985; 85EP-0400141.
XX
XX 23-JUL-1984; 84US-0633558.
XX 30-JAN-1984; 84US-0575352.
XX
XX (UYCH-) UNIV CHICAGO.
XX
XX Kieff E, Tanner J, Hummel M, Belset C;
XX
XX WPI; 1985-191978/32.
XX P-PSDB; AAP50073.
XX
XX New fragment of Epstein-Barr Virus DNA - useful in vector to
XX express polypeptide for use in prepn. of vaccine against the
XX virus and for use in diagnosis.
XX
XX Claim 1; Page 21-23; 26pp; English.
XX
XX The sequence encodes an outer surface viral protein of EBV, used
XX to generate antibodies reacting with the surface proteins of
XX EBV-infected cells, and in the preparation of a vaccine against EBV.
XX (Updated on 25-MAR-2003 to correct PA field.)
XX
XX Sequence 2721 BP; 762 A; 876 C; 557 G; 526 T; 0 other;
SQ
Query Match 88.9%; Score 16; DB 6; Length 2721;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGTACCTGT 16
DB 2124 GGCTGGTGTACCTGT 2109

```

```

FT misc_feature 3105..3106
FT /*tag= e
FT /function= splice acceptor site
FT /note= "bases 3104-3107 (AGGT) are replaced by
FT polya_signal 3742..3747
FT TGA in the non-splicing variant"
FT /*tag= f
XX
XX MO9528488-A1.
XX
XX 26-OCT-1995.
XX
XX 13-APR-1995; 95WO-US04611.
XX
XX 18-APR-1994; 94US-0229291.
XX
XX (AVIR-) AVIRON.
XX
XX Jackman WT, Spaete R;
XX
XX WPI; 1995-373802/48.
XX P-PSDB; AAR80144.
XX
XX New DNA encoding a homogeneous gp350 protein - can be used for
XX preventing and treating Epstein-Barr virus-related diseases or
XX conditions
XX
XX Claim 2; Fig.1; 61pp; English.
XX
XX The donor and acceptor splice sites of the EBV gene encoding gp350/
XX 220 are mutated by replacement of native nucleotides by non-native
XX nucleotides, without altering the encoded amino acid sequence.
XX resulting in elimination of gp350 prodn. Recombinant homogeneous
XX gp350, useful in vaccines, is expressed in mammalian or insect cell
XX hosts.
XX
XX Sequence 5931 BP; 1453 A; 1782 C; 1437 G; 1259 T; 0 other;
SQ
Query Match 88.9%; Score 16; DB 16; Length 5931;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGTACCTGT 16
DB 3137 GGCTGGTGTACCTGT 3122

```

```

RESULT 17
AAT04821/c
ID AAT04821 standard; cDNA; 5931 BP.
XX
XX AAT04821;
XX
XX 18-JAN-1996 (first entry)
XX
XX EBV gp350/220 cDNA.
XX
XX EBV; gp350; gp220; gp350/gp220; non-splicing variant; vaccine; ds.
XX
XX Epstein-Barr virus.
XX
XX Key Location/Qualifiers
FT CDS 1014..3737
FT /*tag= a
FT sig_peptide 1014..1067
FT /*tag= b
FT mat_peptide 1068..3734
FT /*tag= c
FT misc_feature 2514..2515
FT /*tag= d
FT /function= splice donor site
FT /note= "bases 2513-2517 (AAGT) are replaced by
FT GTCA in the non-splicing variant"

```

```

RESULT 18
ABA15144
ID ABA15144 standard; DNA; 13559 BP.
XX
XX ABA15144;
XX
XX 23-JAN-2002 (first entry)
XX
XX Human nervous system related polynucleotide SEQ ID NO 7475.
XX
XX Human; noctropic; neuroprotective; cytosolic; dermatological; virucide;
XX immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
XX antiparkinsonian; antisticking; antianaemic; antiarthritic; cancer;
XX antineumatic; hepatotropic; cerebroprotective; antiinflammatory;
XX antiallergic; antidiabetic; antidiuretic; anticonvulsant; antifungal;
XX antiparasitic; cardiac; immune disorder; cardiovascular disorder;
XX neurological disease; infection; neurotropic; gene therapy; vaccine; ds.
XX
XX Homo sapiens.
XX
XX MO200159063-A2.
XX
XX 16-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US01334.

```


XX Disclosure; SEQ ID NO 7475; 1701bp + Sequence Listing; English.
PS
XX
CC The invention relates to novel genes (ABAI1004-ABA21534) and proteins
CC (ABH14678-ABH18001) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
CC hemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
CC disease, multiple sclerosis, rheumatoid arthritis and uveitis;
CC (c) cardiovascular disorders such as myocardial ischaemia;
CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
CC and parasitic infections.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13559 BP; 2882 A; 3867 C; 4239 G; 2571 T; 0 other;
Query Match 88.9%; Score 16; DB 22; Length 13559;
Best Local Similarity 100.0%; Pred. No. 5.3;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGCTGGTGTACCTGT 16
12761 GGCTGGTGTACCTGT 12776
DB
RESULT 19
ABNS2794
ID ABNS2794 standard; DNA; 65 BP.
XX
XX ABNS2794;
AC
XX 15-JUL-2002 (first entry)
DT
XX
XX Mouse spliced transcript detection oligonucleotide SEQ ID NO:25542.
DE
XX
XX Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.
XX
XX Mus musculus.
OS
XX
XX WO200210449-A2.
PN
XX
XX 07-FEB-2002.
PD
XX
XX 20-JUL-2001; 2001WO-IB01903.
PF
XX
XX 28-JUL-2000; 2000US-221607P.
PR
XX 02-MAY-2001; 2001US-287724P.
PR
XX
XX (COMP-) COMPUGEN INC.
PA
XX
XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
PI
XX
XX WPI; 2002-257383/30.
DR
XX
XX
XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes
XX
PS Example 1; SEQ ID 25542; 47pp; English.
XX
XX The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple

CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridising selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterising the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABNS589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 65 BP; 8 A; 11 C; 23 G; 23 T; 0 other;
Query Match 83.3%; Score 15; DB 24; Length 65;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGCTGGTGTACCTG 15
8 GGCTGGTGTACCTG 22
DB
RESULT 20
ABVS6544
ID ABVS6544 standard; cDNA; 609 BP.
XX
XX ABVS6544;
AC
XX 17-SEP-2002 (first entry)
DT
XX
XX Human prostate expression marker cDNA 56535.
DE
XX
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KM pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200160860-A2.
PN
XX
XX 23-AUG-2001.
PD
XX
XX 20-FEB-2001; 2001WO-US05171.
PF
XX
XX 17-FEB-2000; 2000US-183319P.
PR
XX 16-MAR-2000; 2000US-189862P.
PR
XX 25-MAY-2000; 2000US-207454P.
PR
XX 09-JUN-2000; 2000US-211314P.
PR
XX 18-JUL-2000; 2000US-219007P.
PR
XX 13-DEC-2000; 2000US-255281P.
PR
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
PA
XX
XX Schlegel R, Endege WO, Monahan JF;
PI
XX
XX WPI; 2001-662795/76.
DR
XX
XX
XX Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer. Stage of prostate cancer
XX
PS Claim 1; Page 10906; 11750pp; English.
XX

CC The invention relates to an isolated nucleic acid molecule (1) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (1) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;
 CC (1) is also useful as a pharmacodynamic or pharmacogenomic marker.

SQ Sequence 609 BP; 186 A; 116 C; 99 G; 208 T; 0 other;

Query Match 83.3%; Score 15; DB 23; Length 609;
 Best Local Similarity 100.0%; Pred. No. 21;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGGTGTCACTGTT 17
 |||||
 DB 45 CTGGTGTCACTGTT 59

RESULT 21
 AAF11311
 ID AAF11311 standard; cDNA; 616 BP.
 AC AAF11311;
 XX
 DT 13-MAR-2001 (first entry)
 XX
 DE Aspergillus niger EST SEQ ID NO:3834.
 XX
 DE Multiple gene expression; filamentous fungal cell; EST;
 XX expressed sequence tag; Fusarium venenatum; Aspergillus niger;
 KM Aspergillus oryzae; Trichoderma reesei; identification; recombination;
 KM culture condition; environmental stress; spore morphogenesis;
 KM metabolic pathway engineering; catabolic pathway engineering; ss.
 XX
 OS Aspergillus niger.
 XX
 PN WO200056762-A2.
 XX
 PD 28-SEP-2000.
 XX
 PF 22-MAR-2000; 2000MO-US07781.
 XX
 PR 22-MAR-1999; 99US-0273623.
 XX
 PA (NOVO) NOVO NORDISK BIOTECH INC.
 PA (NOVO) NOVO NORDISK AS.
 XX
 PI Berka RM, Rey MM, Shuster JR, Kaupinen S, Clausen IG, Olsen PB;
 XX
 DR WPI; 2000-594572/56.
 XX
 PT Monitoring differential expression of genes in filamentous fungal cells
 PT uses fluorescence-labeled nucleic acids isolated from the cells and a
 PT substrate of expressed sequence tags -
 XX
 PS Claim 87; Page 1716; 3161pp; English.
 XX
 CC The present invention describes a method for monitoring differential
 CC expression of genes in a first filamentous fungal (FF) cell relative to
 CC expression of the same genes in one or more second filamentous fungal
 CC cells. The method uses fluorescence-labeled nucleic acids isolated from
 CC the FF cells and a substrate of expressed sequence tags (EST). The ESTs
 CC are used in the methods for monitoring differential expression of genes
 CC in a first filamentous fungal (FF) cell relative to expression of the

CC same genes in one or more second filamentous fungal cells. Monitoring
 CC the global expression of genes from FF cells allows the production
 CC potential of the microorganisms to be improved. New genes may be
 CC discovered, possible functions of unknown open reading frames can be
 CC identified and gene copy number variation and stability can be
 CC monitored. The expression of genes can be used to study how FF cells
 CC adapt to changes in culture conditions, environmental stress, spore
 CC morphogenesis, recombination, metabolic or catabolic pathway
 CC engineering. Using ESTs provides several advantages over genomic or
 CC random cDNA clones including elimination of redundancy as one spot on an
 CC array equals one gene or open reading frame, and organisation of the
 CC microarrays based on function of the gene products to facilitate
 CC analysis of the results. AAF07478 to AAF11247 represents ESTs from
 CC Fusarium venenatum; AAF11248 to AAF11853 represents ESTs from Aspergillus
 CC niger; AAF11854 to AAF14878 represents ESTs from Aspergillus oryzae; and
 CC AAF14879 to AAF15337 represents ESTs from Trichoderma reesei, which are
 CC all specifically claimed in the present invention.

SQ Sequence 616 BP; 138 A; 179 C; 141 G; 146 T; 12 other;

Query Match 83.3%; Score 15; DB 21; Length 616;
 Best Local Similarity 100.0%; Pred. No. 21;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGCTGCACCTG 15
 |||||
 DB 244 GGCTGCTGCACCTG 258

RESULT 22
 AAH45451
 ID AAH45451 standard; cDNA; 1419 BP.
 AC AAH45451;
 XX
 DT 06-SEP-2001 (first entry)
 XX
 DE Murine epilepsy-causing gene Epm2a cDNA sequence.
 XX
 DE Mouse; Epm2a; epilepsy; transgenic animal; knockout mouse; ss.
 XX
 OS Mus musculus.
 XX
 FH Key Location/Qualifiers
 FT CDS 67..1059
 FT /tag= a
 FT /product= "Epm2a"
 FT /note= "Protein tyrosine phosphatase"
 XX
 PN JP2001095587-A.
 XX
 PD 10-APR-2001.
 XX
 PF 01-OCT-1999; 99JP-0281632.
 XX
 PR 01-OCT-1999; 99JP-0281632.
 XX
 PA (RIKA) RIKAGAKU KENKYUSHO.
 XX
 DR WPI; 2001-341250/36.
 DR P-PDB; AAG62454.
 XX
 PT Mouse epilepsy-causing gene for the analysis of epilepsy and use in a
 PT mouse model of epilepsy -
 XX
 PS Claim 2; Page 6-8; 10pp; Japanese.
 XX
 CC This invention relates to a murine gene (Epm2a) and its encoded protein,
 CC which cause epilepsy. Epm2a is a protein tyrosine phosphatase. Included
 CC in the invention is a method of preparing an Epm2a knockout mouse. The
 CC gene can be used for the analysis of Epm2a expression and to create an
 CC epilepsy model animal. The present sequence represents cDNA encoding
 CC murine epilepsy causing Epm2a protein.

XX SQ Sequence 1419 BP; 293 A; 376 C; 437 G; 313 T; 0 other;
Query Match 83.3%; Score 15; DB 22; Length 1419;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGCTGTCACCTG 15
Db 1146 GGCTGTCACCTG 1160
RESULT 23
ABZ11825
ID ABZ11825 standard; cDNA; 1699 BP.
XX ABZ11825;
AC
XX 20-JAN-2003 (first entry)
XX
XX Human polynucleotide SEQ ID NO 707.
DE
XX Human; genome mapping; gene therapy; food supplement; virus; fungus;
XX cell-proliferative disorder; neurodegenerative disease; bacterial;
XX Parkinson's disease; Alzheimer's disease; autoimmune disease;
XX multiple sclerosis; diabetes; genetic disorder; wound; burn; infection;
XX arthritis; cytostatic; immunomodulator; nootropic; neuroprotective;
XX antiparkinsonian; antidiabetic; immunosuppressive; dermatological;
XX haemostatic; vulnerary; fungicide; antibacterial; virucide; protozoacide;
XX antiarthritic; gene; ss.
XX Homo sapiens.
XX WO200270539-A2.
XX 12-SEP-2002.
XX 05-MAR-2002; 2002MO-US05095.
XX 05-MAR-2001; 2001US-0799451.
XX (HYSE-) HYSEQ INC.
XX Tang YT, Zhou P, Goodrich RM, Asundi V, Zhang J, Zhao QA, Ren F,
XX Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M,
XX Wehrman T, Wang J, Wang D, Drmanac RT;
XX WPI; 2002-759812/82.
XX P-PSDB; ABP69608.
XX
XX New polynucleotides comprising sequences assembled from expressed
XX PT sequence tags (ESTs), useful for treating cell-proliferative,
XX neurodegenerative, autoimmune, myeloid or lymphoid, or
XX platelet or coagulation disorders -
XX
XX Claim 1; SEQ ID NO 707; 1012pp + Sequence Listing: English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising a
XX nucleotide sequence selected from any of 948 sequences
XX (ABZ1119-ABZ12066) or their mature protein coding portion, active domain
XX coding protein or complementary sequences. The polynucleotides are useful
XX for identifying expressed genes or for physical mapping of human genome.
XX The encoded polypeptides (ABP68902-ABP69849) are useful as molecular
XX weight markers, as a food supplement, for generating antibodies, in
XX medical imaging, screening and diagnostic assays and for treating
XX cell-proliferative disorders (cancer), neurodegenerative diseases
XX (Parkinson's or Alzheimer's disease), autoimmune diseases (multiple
XX sclerosis, diabetes, lupus) genetic disorders, myeloid or lymphoid
XX disorders, platelet or coagulation disorders, wound, burns, incision,
XX ulcers, liver or lung fibrosis, infections (bacterial, viral, fungal,
XX parasitic), arthritis, etc.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO

CC at fcp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 1699 BP; 512 A; 296 C; 287 G; 604 T; 0 other;
Query Match 83.3%; Score 15; DB 24; Length 1699;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 CTGTCACCTGTT 17
Db 742 CTGTCACCTGTT 756
RESULT 24
AAV02313
ID AAV02313 standard; cDNA; 1808 BP.
XX AAV02313;
AC
XX 06-MAY-1998 (first entry)
XX
XX C16N gene for promoting neuron survival and type 1 collagen production.
DE
XX C16; C16N; neuron survival; type 1 collagen; calcium regulation;
XX hypercalcaemia; hypertension; diabetes; arteriosclerosis; cancer;
XX myocardial infarction; hydroxyapatite; osteoblast; ds.
XX Mus sp.
XX
XX Key Location/Qualifiers
XX CDS 1..1740
XX /tag= a
XX /product= "C16N"
XX
XX WO9740150-A1.
XX 30-OCT-1997.
XX 23-APR-1997; 97WO-JP01391.
XX
XX 10-FEB-1997; 97JP-0041562.
XX 23-APR-1996; 96JP-0127954.
XX
XX (SUMU) SUMITOMO PHARM CO LTD.
XX
XX Ishiduka Y, Mochizuki R;
XX
XX WPI; 1997-535834/49.
XX P-PSDB; AAW31366.
XX
XX Proteins C16 and C16N promote neuron survival and type 1 collagen
XX production - for treatment of diseases involving collagen
XX production, calcium regulation or neuron survival
XX
XX Claim 6; Page 61-62; 86pp; Japanese.
XX
XX The present sequence encodes C16N which can: (a) induce differentiation
XX into cells which can degrade hydroxyapatite; (b) maintain neuron
XX survival; (c) inhibit osteoblast proliferation; and (d) promote type 1
XX collagen expression in osteoblasts. C16 and C16N are agents for the
XX treatment of a broad range of diseases including hypercalcaemia,
XX hypertension, diabetes, arteriosclerosis, myocardial infarction and
XX terminal cancer. They may also be used as a screen for potential
XX inhibitors of their activity for possible medicinal use. Transgenic
XX animals containing DNA coding for the proteins can be used as model
XX organisms and for the production of recombinant C16/C16N.
XX
XX SQ Sequence 1808 BP; 336 A; 548 C; 551 G; 373 T; 0 other;
Query Match 83.3%; Score 15; DB 18; Length 1808;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGCTGCACCTG 15
|||
XX 949 GGCTGCTGCACCTG 963

RESULT 25
AAZ44730
ID AAZ44730 standard; cDNA; 2293 BP.

AC AAZ44730;

DT 17-APR-2000 (first entry)

DE Human C16N-1 cDNA.

KW C16N; C16N-1; C16N-2; human; cartilage cell differentiation; therapy;
cartilage disorder treatment agent; arthritis; rheumatoid arthritis; ss.

OS Homo sapiens.

PH Key Location/Qualifiers

FT CDS 107..2293

FT /tag= a

FT /product= "C16N-1"

FT /note= "no stop codon given"

PN WO200001405-A1.

PD 13-JAN-2000.

PF 02-JUL-1999; 99WO-JP03577.

PR 06-JUL-1998; 98JP-0190889.

PA (SUMU) SUMITOMO PHARM CO LTD.

PI Ishiduka Y, Mochizuki R;

DR MPI: 2000-126903/11.

DR P-PSDB; AAY51326.

XX Cartilage cell differentiation promoters or remedies for cartilage

PT failure

PS Example 2; Page 36-41; 55pp; Japanese.

XX This invention describes a novel cartilage cell differentiation

CC promoter, or cartilage disorder treatment agent, which contains C16N,

CC C16N-1, C16N-2, or their protein analogs, or one of the genes encoding

CC them, as active ingredient. The promoters and cartilage disorder

CC treatment agents are for the therapy of cartilage failure including

CC deformans arthritis, diseases due to cartilage formation abnormality,

CC deletion of cartilage in bone fraction, joint cartilage caused by injury,

CC or damage to articular disc, acute purulent arthritis, tuberculous

CC arthritis, syphilis arthritis, chronic rheumatoid arthritis, rheumatic

CC fever, systemic erythematous, deformative spinal diseases, and

CC intervertebral hernia. This sequence encodes the human C16N-1 protein

CC which is described in the method of the invention.

XX Sequence 2293 BP; 417 A; 716 C; 691 G; 469 T; 0 other;

Query Match 83.3%; Score 15; DB 21; Length 2293;

Best Local Similarity 100.0%; Pred. No. 21; Mismatches 0; Gaps 0;

Matches 15; Conservative 0; Indels 0; Gaps 0;

OY 1 GGCTGCTGCACCTG 15

|||
XX 1505 GGCTGCTGCACCTG 1519

RESULT 26

AAZ40179
ID AAZ40179 standard; cDNA; 2293 BP.

XX AAZ40179;
AC 22-FEB-2000 (first entry)

DT Human C16N-1 coding sequence.

DE C16N-1; C16N-2; human; myeloid cell differentiation; neuron;

KW hydroxyapatite decomposition; osteoblast growth inhibitor;

KW type I collagen expression; ds.

XX Homo sapiens.

OS JP11308995-A.

PD 09-NOV-1999.

PF 28-APR-1998; 98JP-0134440.

PR 28-APR-1998; 98JP-0134440.

PA (SUMU) SUMITOMO SEIYAKU KK.

DR MPI: 2000-046933/04.

DR P-PSDB; AAY55017.

XX New proteins C16N-1 and C16N-2 or a gene coding them - can have

PT activity limited to specific tissue or site

PS Claim 2; Page 18-21; 30pp; Japanese.

XX This sequence encodes a C16N-1 protein of the invention. The invention

CC also relates to C16N-2 proteins. The proteins of the invention have the

CC following features: (1) it has a differentiation inducing activity,

CC inducing differentiation of a myeloid cell to a cell having

CC hydroxyapatite decomposing activity; (2) it has an activity of

CC maintaining the survival of neuron; (3) it has an activity of inhibiting

CC growth of osteoblasts; and (4) it has an activity of promoting expression

CC of type I collagen in osteoblasts. The activity of the proteins can be

CC limited to a specific tissue or a specific site.

XX Sequence 2293 BP; 417 A; 716 C; 691 G; 469 T; 0 other;

Query Match 83.3%; Score 15; DB 21; Length 2293;

Best Local Similarity 100.0%; Pred. No. 21; Mismatches 0; Gaps 0;

Matches 15; Conservative 0; Indels 0; Gaps 0;

OY 1 GGCTGCTGCACCTG 15

|||
XX 1505 GGCTGCTGCACCTG 1519

RESULT 27

AAZ44731
ID AAZ44731 standard; cDNA; 2301 BP.

AC AAZ44731;

DT 17-APR-2000 (first entry)

DE Human C16N-2 cDNA.

KW C16N; C16N-1; C16N-2; human; cartilage cell differentiation; therapy;

cartilage disorder treatment agent; arthritis; rheumatoid arthritis; ss.

XX 13-JAN-2000.
PD 02-JUL-1999; 99WO-JP03577.
XX 06-JUL-1998; 98UP-0190889.
XX (SUMU) SUMITOMO PHARM CO LTD.
XX Ishiduka Y, Mochizuki R;
XX WPI; 2000-126903/11.
DR P-PSDB; AAY51327.
XX Cartilage cell differentiation promoters or remedies for cartilage
PT failure
XX Example 2; Page 45-50; 55pp; Japanese.
XX This invention describes a novel cartilage-cell differentiation
CC promoter, or cartilage disorder treatment agent, which contains C16N,
CC C16N-1, C16N-2, or their protein analogs, or one of the genes encoding
CC them, as active ingredient. The promoters and cartilage disorder
CC treatment agents are for the therapy of cartilage failure including
CC deformans arthritis, diseases due to cartilage formation abnormality,
CC deletion of cartilage in bone fraction, joint cartilage caused by injury,
CC or damage to articular disc, acute purulent arthritis, tuberculous
CC arthritis, syphulous arthritis, chronic rheumatoid arthritis, rheumatic
CC fever, systemic erythematosis, deformative spinal diseases, and
CC intervertebral hernia. This sequence encodes the human C16N-2 protein
CC which is described in the method of the invention.
XX
SQ Sequence 2301 BP; 425 A; 714 C; 703 G; 459 T; 0 other;
Query Match 83.3%; Score 15; DB 21; Length 2301;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGCTGGTGTACCTG 15
DB 1442 GGCTGGTGTACCTG 1456
RESULT 28
AAZ40180
ID AAZ40180 standard; cDNA; 2301 BP.
XX AAZ40180;
AC 22-FEB-2000 (first entry)
XX
DT Human C16N-2 coding sequence.
XX
DE Human C16N-2 coding sequence.
XX
KW C16N-1; C16N-2; human; myeloid cell differentiation; neuron;
KM hydroxyapatite decomposition; osteoblast growth inhibitor;
KW type I collagen expression; ds.
XX
XX Homo sapiens.
OS
XX JPI1308995-A.
PN 09-NOV-1999.
XX
PD 28-APR-1998; 98JP-0134440.
XX
PF 28-APR-1998; 98JP-0134440.
XX
PR 28-APR-1998; 98JP-0134440.
XX
PA (SUMU) SUMITOMO SEIYAKU KK.
XX
XX WPI; 2000-046933/04.
DR P-PSDB; AAY55018.
XX
PT New proteins C16N-1 and C16N-2 or a gene coding them - can have

PT activity limited to specific tissue or site
XX
XX Claim 2; Page 23-26; 30pp; Japanese.
XX
CC This sequence encodes a C16N-2 protein of the invention. The invention
CC also relates to C16N-1 proteins. The proteins of the invention have the
CC following features: (1) it has a differentiation inducing activity,
CC including differentiation of a myeloid cell to a cell having
CC hydroxyapatite decomposing activity; (2) it has an activity of
CC maintaining the survival of neuron; (3) it has an activity of inhibiting
CC growth of osteoblasts; and (4) it has an activity of promoting expression
CC of type I collagen in osteoblasts. The activity of the proteins can be
CC limited to a specific tissue or a specific site.
XX
SQ Sequence 2301 BP; 425 A; 714 C; 703 G; 459 T; 0 other;
Query Match 83.3%; Score 15; DB 21; Length 2301;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGCTGGTGTACCTG 15
DB 1442 GGCTGGTGTACCTG 1456
RESULT 29
AAZ33584
ID AAZ33584 standard; cDNA; 2952 BP.
XX AAZ33584;
AC 08-DEC-1999 (first entry)
XX
DT Human breast tumour-associated EST 44.
XX
DE Human breast tumour-associated EST 44.
XX
KW Expressed sequence tag; EST; human; breast; cancer; cytostatic;
KM medicaments; gene therapy; treatment; fat metabolism; ss.
XX
OS Homo sapiens.
OS
XX DE19813835-A1.
PN 23-SEP-1999.
XX
PD 20-MAR-1998; 98DE-1013835.
XX
PF 20-MAR-1998; 98DE-1013835.
XX
PR 20-MAR-1998; 98DE-1013835.
XX
PA (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX
XX Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E, Rosenthal A;
XX WPI; 1999-528979/45.
XX
XX Human nucleic acid sequences and protein products from normal breast
PT tissue, useful for breast cancer therapy
XX
XX Claim 3; 132-133; 206pp; German.
XX
XX This invention describes novel human nucleic acid sequences from normal
CC breast tissue which have cytostatic activity. The nucleic acid sequences
CC can be used to produce and isolate full-length gene sequences. They can
CC be used to express proteins, which can be used as tools to find an
CC activity against breast cancer. The sequences can be used in sense or
CC antisense form. They are especially useful for medicaments for gene
CC therapy to treat breast cancer and for treating illnesses associated
CC with fat metabolism. AAZ33541-233610 represent expressed sequence tags
CC described in the method of the invention.
XX
SQ Sequence 2952 BP; 925 A; 564 C; 582 G; 881 T; 0 other;
Query Match 83.3%; Score 15; DB 20; Length 2952;
Best Local Similarity 100.0%; Pred. No. 20;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Query 3 CTGGTGCACCTGTT 17
|||||
Db 2836 CTGGTGCACCTGTT 2850

RESULT 30
AAC77831
ID AAC77831 standard; cDNA; 3035 BP.

AAC77831;

08-FEB-2001 (first entry)

Human cancer associated gene sequence SEQ ID NO:225.

Human; cancer associated gene; cancer antigen; detection; cancer;
diagnosis; cytostatic; proliferative; vulnery; immunomodulator;
antidiabetic; antiaesthetic; antineumatic; antirheumatic; antiviral;
dermatological; antihypertensive; antiallergic; antibacterial; cardiant;
vasotropic; antipruritic; antianxiogenic; gene therapy; inflammation;
immune disorder; haematopoietic cell disorder; autoimmune disorder;
allergic reaction; graft versus host disease; organ rejection;
haemostatic; thrombolytic; cardiovascular disorder; infection;
neurological disease; drug screening; ss.

Homo sapiens.

W0200055350-A1.

21-SEP-2000.

08-MAR-2000; 2000MO-US05882.

12-MAR-1999; 99US-024270.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Ruben SM;

WPI; 2000-587533/55.

P-PSDB; AAB43622.

Novel isolated nucleic acids comprising sequences encoding peptides
useful for treating or diagnosing e.g. cancer -

Claim 1; Page 796-797; 2352pp; English.

AAC77607 to AAC78448 encode the human cancer associated proteins given
in AAB43398 to AAB44239. The proteins can have activities based on the
tissues and cells the genes are expressed in. Example of activities
include: cytostatic; proliferative; vulnery; immunomodulator;
antidiabetic; antiaesthetic; antineumatic; antirheumatic;
antifibrotic; antihypertensive; antiallergic; antibacterial; antiviral;
dermatological; neuroprotective; cardiant; thrombolytic; coagulant;
nootropic; vasotropic; antipruritic and antianxiogenic. The
polynucleotides and polypeptides can be used for preventing, treating or
ameliorating medical conditions and diagnosing pathological conditions.
Polynucleotides, polypeptides, antibodies, agonists and antagonists from
the present invention may be used to treat immune disorders by activating
or inhibiting the proliferation, differentiation or mobilization of
immune cells, to treat disorders of haematopoietic cells, autoimmune
disorders, allergic reactions, graft versus host disease and organ
rejection, modulate haemostatic or thrombolytic activity, modulate
inflammation, cancers, cardiovascular disorders, neurological disease and
bacterial or viral infections. The peptides, nucleotides, antibodies,
agonists and antagonists may be also be used in drug screens. AAC78449 to
AAC78457 and AAB44240 represent sequences used in the exemplification of
the present invention.

Sequence 3035 BP; 955 A; 575 C; 588 G; 912 T; 5 other;

Query Match 83.3%; Score 15; DB 21; Length 3035;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 3 CTGGTGCACCTGTT 17
|||||
Db 2771 CTGGTGCACCTGTT 2785

RESULT 31
AAH34809
ID AAH34809 standard; cDNA; 3035 BP.

AAH34809;

03-SEP-2001 (first entry)

Human colon cancer antigen encoding cDNA SEQ ID NO:1891.

Human; colon cancer; colon cancer antigen; diagnosis; detection;
colorectal carcinoma; chromosome 2; ss.

Homo sapiens.

W0200122920-A2.

05-APR-2001.

28-SEP-2000; 2000MO-US26524.

29-SEP-1999; 99US-0157137.

03-NOV-1999; 99US-0163280.

(HUMA-) HUMAN GENOME SCI INC.

Ruben SM, Barash SC, Birse CE, Rosen CA;

WPI; 2001-235357/24.

P-PSDB; AAG75404.

Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
useful for preventing, diagnosing and/or treating colorectal cancers -

Claim 1; Page 3405-3406; 9803pp; English.

AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
cancer-associated nucleic acid molecules (N) and proteins (P), where
the proteins are collectively known as colon cancer antigens. The colon
cancer antigens have cytostatic activity and can be used in gene
therapy and vaccine production. N and P may be used in the prevention,
diagnosis and treatment of diseases associated with inappropriate P
expression. For example, N and P may be used to treat disorders
associated with decreased expression by rectifying mutations or deletions
in a patient's genome that affect the activity of P by expressing
inactive proteins or to supplement the patient's own production of P.
Additionally, N may be used to produce the colon cancer-associated P,
by inserting the nucleic acids into a host cell and culturing the cell
to express the proteins. N and P can be used in the prevention, diagnosis
and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
and AAB77789 represent sequences used in the exemplification of the
present invention.

N.B. Pages 666 to 682 and page 7053 of the sequence listing were
missing at time of publication, meaning no sequences are present for
SEQ ID NO:1027 to 1052, 7921 and 7922.

Sequence 3035 BP; 955 A; 575 C; 590 G; 912 T; 3 other;

Query Match 83.3%; Score 15; DB 22; Length 3035;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 3 CTGGTGCACCTGTT 17

Db 2771 CTGCTGTACCTGTT 2785

RESULT 32

AAV02312 standard; cDNA; 3065 BP.

AAV02312;

06-MAY-1998 (first entry)

Cl6N gene for promoting neuron survival and type 1 collagen production.

Cl6; Cl6N; neuron survival; type 1 collagen; calcium regulation;

hypercalcaemia; hypertension; diabetes; arteriosclerosis; cancer;

myocardial infarction; hydroxyapatite; osteoblast; ds.

Mus sp. Location/Qualifiers

Key CDS 236..1975

FT /tag= a "Cl6N"

FT /product= "Cl6N"

PD WO9740150-A1.

PD 30-OCT-1997.

PF 23-APR-1997; 97WO-JP01391.

XX 10-FEB-1997; 97JP-0041562.

PR 23-APR-1996; 96JP-0127954.

XX (SUMU) SUMITOMO PHARM CO LTD.

PI Ishiduka Y, Mochizuki R;

XX WPI; 1997-535834/49.

DR P-PSDB; AAW31364.

XX Proteins Cl6 and Cl6N promote neuron survival and type 1 collagen

PT production - for treatment of diseases involving collagen

PT production, calcium regulation or neuron survival

XX Claim 6; Page 55-57; 86pp; Japanese.

XX The present sequence encodes Cl6N which can: (a) induce differentiation

CC into cells which can degrade hydroxyapatite; (b) maintain neuron

CC survival; (c) inhibit osteoblast proliferation; and (d) promote type 1

CC collagen expression in osteoblasts. Cl6 and Cl6N are agents for the

CC treatment of a broad range of diseases including hypercalcaemia,

CC hypertension, diabetes, arteriosclerosis, myocardial infarction and

CC terminal cancer. They may also be used as a screen for potential

CC inhibitors of their activity for possible medicinal use. Transgenic

CC animals containing DNA coding for the proteins can be used as model

CC organisms and for the production of recombinant Cl6/Cl6N.

XX Sequence 3065 BP; 571 A; 950 C; 889 G; 655 T; 0 other;

Query Match 83.3%; Score 15; DB 18; Length 3065;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGTGTACCTG 15

DB 1184 GGCTGTGTACCTG 1198

RESULT 33

AAZ44729 standard; cDNA; 3337 BP.

AAZ44729;

17-APR-2000 (first entry)

Murine Cl6N-2 cDNA.

Cl6N; Cl6N-1; Cl6N-2; murine; cartilage cell differentiation; therapy;

cartilage disorder treatment agent; arthritis; rheumatoid arthritis; ss.

Mus musculus.

Key Location/Qualifiers

FT CDS 109..2247

FT /tag= a "Cl6N-2"

PN WO200001405-A1.

PD 13-JAN-2000.

PF 02-JUL-1999; 99WO-JP03577.

XX 06-JUL-1998; 98JP-0190889.

XX (SUMU) SUMITOMO PHARM CO LTD.

PI Ishiduka Y, Mochizuki R;

XX WPI; 2000-126903/11.

DR P-PSDB; AAY51325.

XX Cartilage cell differentiation promoters or remedies for cartilage

PT failure -

XX Example 1; Page 27-33; 55pp; Japanese.

XX This invention describes a novel cartilage cell differentiation

CC promoter, or cartilage disorder treatment agent, which contains Cl6N,

CC Cl6N-1, Cl6N-2, or their protein analogs, or one of the genes encoding

CC them, as active ingredient. The promoters and cartilage disorder

CC treatment agents are for the therapy of cartilage failure including

CC deformans arthritis, diseases due to cartilage formation abnormality,

CC deletion of cartilage in bone fraction, joint cartilage caused by injury,

CC or damage to articular disc, acute purulent arthritis, tuberculous

CC arthritis, synphalious arthritis, chronic rheumatoid arthritis, rheumatic

CC fever, systemic erythematous, deformative spinal diseases, and

CC intervertebral hernia. This sequence encodes the murine Cl6N-2 protein

CC which is described in the method of the invention.

XX Sequence 3337 BP; 633 A; 1037 C; 976 G; 691 T; 0 other;

Query Match 83.3%; Score 15; DB 21; Length 3337;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGTGTACCTG 15

DB 1456 GGCTGTGTACCTG 1470

RESULT 34

AAZ40178 standard; cDNA; 3337 BP.

AAZ40178;

22-FEB-2000 (first entry)

Mouse Cl6N-2 coding sequence.

Cl6N-1; Cl6N-2; mouse; myeloid cell differentiation; neuron;

hydroxyapatite decomposition; osteoblast growth inhibitor;

type I collagen expression; ds.

XX Mus sp.
 OS JP1308995-A.
 XX
 PN 09-NOV-1999.
 XX
 PD 28-APR-1998; 98JP-0134440.
 XX
 PF 28-APR-1998; 98JP-0134440.
 XX
 PR 28-APR-1998; 98JP-0134440.
 XX
 PA (SUMU) SUMITOMO SEIYAKU KK.
 XX
 DR WPI; 2000-046933/04.
 XX P-PSDB; AAY55016.
 PT New proteins Cl6N-1 and Cl6N-2 or a gene coding them - can have
 XX activity limited to specific tissue or site
 PS Claim 2; Page 13-16; 30pp; Japanese.
 CC This sequence encodes a Cl6N-2 protein of the invention. The invention
 CC also relates to Cl6N-1 proteins. The proteins of the invention have the
 CC following features: (1) it has a differentiation inducing activity,
 CC inducing differentiation of a myeloid cell to a cell having
 CC hydroxyapatite decomposing activity; (2) it has an activity of
 CC maintaining the survival of neuron; (3) it has an activity of inhibiting
 CC growth of osteoblasts; and (4) it has an activity of promoting expression
 CC of type I collagen in osteoblasts. The activity of the proteins can be
 CC limited to a specific tissue or a specific site.
 SQ Sequence 3337 BP; 633 A; 1037 C; 976 G; 691 T; 0 other;

Query Match 83.3%; Score 15; DB 21; Length 3337;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTG 15
 |||||
 DB 1456 GGCTGGTGCACCTG 1470

RESULT 35
 AA244728
 ID AA244728 standard; cDNA; 3674 BP.
 XX
 AC AA244728;
 XX
 DT 17-APR-2000 (first entry)
 XX
 DE Murine Cl6N-1 cDNA.
 XX
 KW Cl6N; Cl6N-1; Cl6N-2; murine; cartilage cell differentiation; therapy;
 XX cartilage disorder treatment agent; arthritis; rheumatoid arthritis; ss.
 OS Mus musculus.
 XX
 FH Key Location/Qualifiers
 FT CDS 395..2584
 FT /*tag= a
 FT /product= "Cl6N-1"
 XX
 PN WO200001405-A1.
 PD 13-JAN-2000.
 XX
 PF 02-JUL-1999; 99WO-JP03577.
 XX
 PR 06-JUL-1998; 98JP-0190889.
 XX
 PA (SUMU) SUMITOMO PHARM CO LTD.
 XX
 PI Ishiduka Y, Mochizuki R;

XX WPI; 2000-126903/11.
 DR P-PSDB; AAY51324.
 XX
 PT Cartilage cell differentiation promoters or remedies for cartilage
 XX failure
 PS Example 2; Page 18-24; 55pp; Japanese.
 CC This invention describes a novel cartilage cell differentiation
 CC promoter, or cartilage disorder treatment agent, which contains Cl6N,
 CC Cl6N-1, Cl6N-2, or their protein analogs, or one of the genes encoding
 CC them, as active ingredient. The promoters and cartilage disorder
 CC treatment agents are for the therapy of cartilage failure including
 CC deformans arthritis, diseases due to cartilage formation abnormality,
 CC deletion of cartilage in bone fraction, joint cartilage caused by injury,
 CC or damage to articular disc, acute purulent arthritis, tuberculous
 CC arthritis, syphilous arthritis, chronic rheumatoid arthritis, rheumatic
 CC fever, systemic erythematosis, deformative spinal diseases, and
 CC intervertebral hernia. This sequence encodes the murine Cl6N-1 protein
 CC which is described in the method of the invention.

SQ Sequence 3674 BP; 695 A; 1146 C; 1044 G; 789 T; 0 other;

Query Match 83.3%; Score 15; DB 21; Length 3674;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTG 15
 |||||
 DB 1793 GGCTGGTGCACCTG 1807

Search completed: August 14, 2003, 21:41:17
 Job time : 116.4 secs

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OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 21:44:31 ; Search time 32.25 Seconds

(without alignments)
273.726 Million cell updates/sec

Title: US-10-074-620-2

Perfect score: 20

Sequence: 1 ccttagaggaacagcctcc 20

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 559978 seqs, 220691566 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 120 summaries

Database :

1: Issued Patents_NA.*
2: /cgn2_6/ptodata/2/ina/5A.COMB.seq.*
3: /cgn2_6/ptodata/2/ina/5B.COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6A.COMB.seq.*
5: /cgn2_6/ptodata/2/ina/6B.COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	120	1 US-08-197-791-29	Sequence 29, Appl
2	20	100.0	3833	1 US-08-917-120-18	Sequence 18, Appl
3	20	100.0	3833	5 PCT-US95-04611A-18	Sequence 18, Appl
4	20	100.0	5931	3 US-08-783-774-1	Sequence 1, Appl
5	20	100.0	5931	4 US-09-556-706B-1	Sequence 1, Appl
6	16	80.0	6572	4 US-09-620-312D-823	Sequence 823, App
7	14	70.0	854	4 US-09-439-313-354	Sequence 354, App
8	14	70.0	854	4 US-09-352-616A-354	Sequence 354, App
9	14	70.0	1245	1 US-08-599-171A-17	Sequence 17, Appl
10	14	70.0	1245	2 US-08-646-590B-17	Sequence 17, Appl
11	14	70.0	1245	3 US-09-069-226-17	Sequence 17, Appl
12	14	70.0	1245	3 US-09-412-184-17	Sequence 17, Appl
13	14	70.0	1585	4 US-09-232-160-6	Sequence 6, Appl
14	14	70.0	4249	1 US-08-480-784-21	Sequence 21, Appl
15	14	70.0	4249	1 US-08-483-553-21	Sequence 21, Appl
16	14	70.0	4249	1 US-08-487-002-21	Sequence 21, Appl
17	14	70.0	4249	1 US-08-483-554B-21	Sequence 21, Appl
18	14	70.0	4249	1 US-08-488-011B-21	Sequence 21, Appl
19	14	70.0	4249	3 US-08-850-727-21	Sequence 21, Appl
20	14	70.0	4249	5 PCT-US95-10202-21	Sequence 21, Appl
21	14	70.0	4249	5 PCT-US95-10203-21	Sequence 21, Appl
22	14	70.0	4249	5 PCT-US95-10220-21	Sequence 21, Appl
23	13	65.0	126	3 US-08-746-411A-9	Sequence 9, Appl
24	13	65.0	126	4 US-08-857-046A-9	Sequence 9, Appl
25	13	65.0	126	4 US-09-573-252-9	Sequence 9, Appl
26	13	65.0	243	1 US-08-248-474-23	Sequence 23, Appl
27	13	65.0	243	3 US-08-756-849-23	Sequence 23, Appl

C 28	13	65.0	450	4	US-09-702-705-1692	Sequence 1692, Ap
C 29	13	65.0	450	4	US-09-736-457-1692	Sequence 1692, Ap
C 30	13	65.0	1525	4	US-08-244-205-4	Sequence 4, Appl
C 31	13	65.0	1525	5	PCT-US92-10284-4	Sequence 4, Appl
C 32	13	65.0	1645	5	PCT-US94-01321-9	Sequence 9, Appl
C 33	13	65.0	1970	4	US-09-389-956-79	Sequence 79, Appl
C 34	13	65.0	2517	4	US-10-020-079-39	Sequence 39, Appl
C 35	13	65.0	2556	4	US-10-020-079-37	Sequence 37, Appl
C 36	13	65.0	2592	4	US-10-020-079-31	Sequence 31, Appl
C 37	13	65.0	2631	4	US-10-020-079-29	Sequence 29, Appl
C 38	13	65.0	2836	4	US-10-020-079-35	Sequence 35, Appl
C 39	13	65.0	2931	4	US-10-020-079-33	Sequence 33, Appl
C 40	13	65.0	2931	4	US-10-020-079-27	Sequence 27, Appl
C 41	13	65.0	2949	4	US-10-020-079-25	Sequence 25, Appl
C 42	13	65.0	3645	2	US-08-663-112-1	Sequence 1, Appl
C 43	13	65.0	16995	4	US-08-961-527-82	Sequence 82, Appl
C 44	13	65.0	32207	2	US-08-770-379-20	Sequence 20, Appl
C 45	13	65.0	32207	3	US-08-757-659A-20	Sequence 20, Appl
C 46	13	65.0	32207	4	US-09-230-371A-20	Sequence 20, Appl
C 47	13	65.0	176373	3	US-09-128-155-17	Sequence 17, Appl
C 48	13	65.0	176373	3	US-09-128-155-17	Sequence 17, Appl
C 49	13	65.0	1664976	4	US-08-916-421B-1	Sequence 1, Appl
C 50	12	60.0	22	2	US-08-506-864A-10	Sequence 10, Appl
C 51	12	60.0	22	2	US-08-851-968-10	Sequence 10, Appl
C 52	12	60.0	226	3	US-08-906-791-6	Sequence 6, Appl
C 53	12	60.0	276	4	US-09-499-203-50	Sequence 50, Appl
C 54	12	60.0	281	2	US-08-506-864A-3	Sequence 3, Appl
C 55	12	60.0	281	2	US-08-851-968-3	Sequence 3, Appl
C 56	12	60.0	284	4	US-09-205-258-120	Sequence 120, App
C 57	12	60.0	284	3	US-08-906-791-7	Sequence 7, Appl
C 58	12	60.0	289	4	US-09-702-705-1618	Sequence 6286, Ap
C 59	12	60.0	302	4	US-09-313-294A-6286	Sequence 6286, Ap
C 60	12	60.0	303	4	US-09-313-294A-1134	Sequence 1134, Ap
C 61	12	60.0	323	2	US-08-306-864A-4	Sequence 4838, Ap
C 62	12	60.0	323	2	US-08-851-968-4	Sequence 4, Appl
C 63	12	60.0	354	4	US-09-702-705-1618	Sequence 1618, Ap
C 64	12	60.0	354	4	US-09-736-457-1618	Sequence 1618, Ap
C 65	12	60.0	420	3	US-09-532-803-5	Sequence 5, Appl
C 66	12	60.0	421	3	US-09-211-631-12	Sequence 12, Appl
C 67	12	60.0	421	3	US-09-265-628-12	Sequence 12, Appl
C 68	12	60.0	421	3	US-09-001-141-10	Sequence 10, Appl
C 69	12	60.0	421	3	US-09-653-403-13	Sequence 13, Appl
C 70	12	60.0	421	4	US-09-643-597-326	Sequence 326, App
C 71	12	60.0	421	4	US-10-013-784-13	Sequence 13, Appl
C 72	12	60.0	421	4	US-09-480-884A-326	Sequence 326, App
C 73	12	60.0	421	4	US-09-542-615A-326	Sequence 326, App
C 74	12	60.0	421	4	US-09-606-421B-326	Sequence 326, App
C 75	12	60.0	474	2	US-08-619-542B-45	Sequence 45, Appl
C 76	12	60.0	497	4	US-09-589-287B-9	Sequence 9, Appl
C 77	12	60.0	497	4	US-09-588-947A-9	Sequence 9, Appl
C 78	12	60.0	504	4	US-09-107-532A-3133	Sequence 1133, Ap
C 79	12	60.0	516	1	US-08-510-878-2	Sequence 2, Appl
C 80	12	60.0	612	1	US-08-756-299-1	Sequence 1, Appl
C 81	12	60.0	612	2	US-08-964-494-1	Sequence 1, Appl
C 82	12	60.0	627	3	US-09-385-982-201	Sequence 201, App
C 83	12	60.0	642	4	US-09-107-532A-1927	Sequence 1927, Ap
C 84	12	60.0	669	4	US-09-465-901-19	Sequence 19, Appl
C 85	12	60.0	669	4	US-09-465-901-23	Sequence 23, Appl
C 86	12	60.0	669	4	US-09-465-901-27	Sequence 27, Appl
C 87	12	60.0	735	4	US-09-107-532A-1185	Sequence 1185, Ap
C 88	12	60.0	748	1	US-08-510-878-3	Sequence 3, Appl
C 89	12	60.0	768	1	US-08-592-126-116	Sequence 116, App
C 90	12	60.0	768	4	US-09-168-595-116	Sequence 116, App
C 91	12	60.0	800	3	US-08-998-416-90	Sequence 390, App
C 92	12	60.0	819	4	US-10-083-304-3	Sequence 3, Appl
C 93	12	60.0	823	4	US-08-858-207A-235	Sequence 235, App
C 94	12	60.0	846	2	US-09-264-419C-3	Sequence 3, Appl
C 95	12	60.0	846	3	US-08-619-542B-43	Sequence 43, Appl
C 96	12	60.0	914	4	US-09-177-283C-123	Sequence 123, App
C 97	12	60.0	941	4	US-08-312-283C-351	Sequence 351, App
C 98	12	60.0	999	1	US-08-469-649-1	Sequence 1, Appl
C 99	12	60.0	999	4	US-09-347-878-59	Sequence 59, Appl
C 100	12	60.0	1016	2	US-08-930-617-1	Sequence 1, Appl

101 12 60.0 1037 4 US-09-535-008-57 Sequence 57, Appl
102 12 60.0 1049 4 US-09-280-116-176 Sequence 176, App
103 12 60.0 1056 1 US-08-402-217A-1 Sequence 1, Appl
104 12 60.0 1056 1 US-08-700-178-1 Sequence 1, Appl
105 12 60.0 1056 3 US-08-995-654-1 Sequence 1282, Ap
106 12 60.0 1059 4 US-09-107-532A-1282 Sequence 2348, Ap
107 12 60.0 1164 4 US-09-107-532A-2348 Sequence 555, App
108 12 60.0 1164 4 US-09-107-532A-2348 Sequence 2, Appl
109 12 60.0 1189 2 US-08-450-042A-2 Sequence 1, Appl
110 12 60.0 1190 4 US-09-390-207-1 Sequence 1, Appl
111 12 60.0 1207 3 US-09-264-419C-1 Sequence 1980, Ap
112 12 60.0 1248 4 US-09-134-001C-1980 Sequence 8, Appl
113 12 60.0 1260 4 US-09-206-166-8 Sequence 50, Appl
114 12 60.0 1325 2 US-08-632-470-50 Sequence 2, Appl
115 12 60.0 1339 1 US-07-936-163-2 Sequence 3, Appl
116 12 60.0 1353 1 US-08-756-299-3 Sequence 3, Appl
117 12 60.0 1353 2 US-08-964-494-3 Sequence 1, Appl
118 12 60.0 1380 1 US-07-936-163-1 Patent No. 5463025
119 12 60.0 1392 6 5463025-2
120 12 60.0 1392 6 5463025-2

ALIGNMENTS

RESULT 1
US-08-197-791-29
Sequence 29, Application US/08197791
Patent No. 5463025-2
GENERAL INFORMATION:
APPLICANT: Sorige, Joseph A.
APPLICANT: Mullinax, Rebecca L.
TITLE OF INVENTION: NOVEL POLYMERASE COMPOSITIONS AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Limbach and Limbach
STREET: 2001 Ferry Building
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,791
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 08/164,290
FILING DATE: 08-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Bortner, Scott R.
REGISTRATION NUMBER: 34,298
REFERENCE/DOCKET NUMBER: STRG 20270 USA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-433-4150
TELEFAX: 415-433-8716
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-197-791-29
Query Match 100.0%; Score 20; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTAGGAGGAACAAGTCCC 20
|||||
Db 1 CCTTAGGAGGAACAAGTCCC 20

RESULT 2
US-08-917-320-18

Sequence 18, Application US/08917320
Patent No. 5824508
GENERAL INFORMATION:
APPLICANT: Spaete, Richard and Jackman, Winthrop, T.
TITLE OF INVENTION: No. 5824508 Splicing Variants of gp350/220
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/917,320
FILING DATE: 25-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/229,291
FILING DATE: April 18, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Luann Geert
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-003/00US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5163
TELEFAX: 415-857-0663
TELEX: 380816 COOLEYPA
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3833 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1014..3734
US-08-917-320-18
Query Match 100.0%; Score 20; DB 1; Length 3833;
Best Local Similarity 100.0%; Pred. No. 0.0089;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTAGGAGGAACAAGTCCC 20
|||||
Db 2899 CCTTAGGAGGAACAAGTCCC 2918

RESULT 3
PCT-US95-04611A-18
Sequence 18, Application PC/TUS9504611A
GENERAL INFORMATION:
APPLICANT: Spaete, Richard and Jackman, Winthrop, T.
TITLE OF INVENTION: Non Splicing Variants of gp350/220
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum

STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04611A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/229,291
FILING DATE: April 18, 1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Luann Ceerr
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-003/00US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5163
TELEFAX: 415-857-0663
TELEX: 380816 COOLEYPA
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3833 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1014..3734
PCT-US95-04611A-18
Query Match 100.0%; Score 20; DB 5; Length 3833;
Best Local Similarity 100.0%; Pred. No. 0.0089;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCTTAGGAGGAACAAGTCCC 20
Db 2899 CCTTAGGAGGAACAAGTCCC 2918
RESULT 4
US-08-783-774-1
Sequence 1, Application US/08783774
Patent No. 6054130
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Jackman, Winthrop
TITLE OF INVENTION: NON-SPLICING VARIANTS OF
TITLE OF INVENTION: GP350/220
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEO Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/783,774
FILING DATE: 15-JAN-1997
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7682-037
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5931 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1014...3734
OTHER INFORMATION:
US-08-783-774-1
Query Match 100.0%; Score 20; DB 3; Length 5931;
Best Local Similarity 100.0%; Pred. No. 0.0087;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCTTAGGAGGAACAAGTCCC 20
Db 2899 CCTTAGGAGGAACAAGTCCC 2918
RESULT 5
US-09-556-706B-1
Sequence 1, Application US/09556706B
Patent No. 6458364
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Jackman, Winthrop
TITLE OF INVENTION: NON SPLICING VARIANTS OF GP350/220
FILE REFERENCE: 7682-050-999
CURRENT APPLICATION NUMBER: US/09/556,706B
PRIOR FILING DATE: 2000-04-24
PRIOR FILING DATE: 1997-01-15
PRIOR APPLICATION NUMBER: 08/783,774
PRIOR FILING DATE: 1994-04-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 5931
TYPE: DNA
ORGANISM: Virus
FEATURE:
OTHER INFORMATION: GP350/220
US-09-556-706B-1
Query Match 100.0%; Score 20; DB 4; Length 5931;
Best Local Similarity 100.0%; Pred. No. 0.0087;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCTTAGGAGGAACAAGTCCC 20
Db 2899 CCTTAGGAGGAACAAGTCCC 2918
RESULT 6
US-09-620-312D-823
Sequence 823, Application US/09620312D
Patent No. 6569662
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie

APPLICANT: Ren, Feiyan
APPLICANT: Chen, Rui-hong
APPLICANT: Zhao, Qing A.
APPLICANT: Wehrman, Tom
APPLICANT: Xue, Aidong J.
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Jian-Rui
APPLICANT: Zhou, Ping
APPLICANT: Ma, Yunding
APPLICANT: Wang, Dunrui
APPLICANT: Wang, Zhiwei
APPLICANT: John Tillinghast
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. 6569662e1 Nucleic Acids and
POLYPEPTIDES
FILE REFERENCE: 784C1P2B
CURRENT APPLICATION NUMBER: US/09/620,312D
CURRENT FILING DATE: 2000-07-19
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1105
SOFTWARE: pc_fl_genes Version 1.0
SEQ ID NO 823
LENGTH: 6572
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (521)..(2611)
US-09-620-312D-823

Query Match 80.0%; Score 16; DB 4; Length 6572;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGAGGACAACT 17
DB 4524 CTTAGAGGACAACT 4539

RESULT 7
US-09-439-313-354
Sequence 354, Application US/09439313
Patent No. 6329505
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitchem, Jennifer L.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang Yuqi
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael
APPLICANT: Fanger, Gary
APPLICANT: Retter, Mark
APPLICANT: Solk, John
APPLICANT: Day, Craig
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C9
CURRENT APPLICATION NUMBER: US/09/439,313
CURRENT FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 354
LENGTH: 854
TYPE: DNA
ORGANISM: Homo sapien
US-09-439-313-354
Query Match 70.0%; Score 14; DB 4; Length 854;
Best Local Similarity 100.0%; Pred. No. 20;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 AGGAGGAACAAGTC 18
DB 497 AGGAGGAACAAGTC 510

RESULT 8
US-09-352-616A-354
Sequence 354, Application US/09352616A
Patent No. 6395278
GENERAL INFORMATION:
APPLICANT: Dillon, Davin C.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang, Yuqi
APPLICANT: Xu, Jiangchun
APPLICANT: Mitchem, Jennifer Lynn
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427C8
CURRENT APPLICATION NUMBER: US/09/352,616A
CURRENT FILING DATE: 1999-07-13
NUMBER OF SEQ ID NOS: 472
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 354
LENGTH: 854
TYPE: DNA
ORGANISM: Homo sapien
US-09-352-616A-354

Query Match 70.0%; Score 14; DB 4; Length 854;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGGAACAAGTC 18
DB 497 AGGAGGAACAAGTC 510

RESULT 9
US-08-599-171A-17/c
Sequence 17, Application US/08599171A
Patent No. 5814473
GENERAL INFORMATION:
APPLICANT: WARREN, Patrick V.
TITLE OF INVENTION: TRANSAMINASES AND AMINOTRANSFERASES
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSEE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/599,171A
FILING DATE: Concurrently
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: HERRON, CHARLES J.
REGISTRATION NUMBER: 28,019
REFERENCE/DOCKET NUMBER: 331400-38
TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1245 NUCLEOTIDES
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
MOLECULE TYPE: GENOMIC DNA
US-08-599-171A-17

Query Match 70.0%; Score 14; DB 1; Length 1245;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 TTAGAGGACAG 16
Db 1069 TTAGAGGACAG 1056

RESULT 10
US-08-646-590B-17/C
Sequence 17, Application US/08646590B
Patent No. 5962283
GENERAL INFORMATION:
APPLICANT: Warren, Patrick V.
APPLICANT: Swanson, Ronald V.
TITLE OF INVENTION: TRANSAMINASES AND AMINOTRANSFERASES
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,590B
FILING DATE: 08-May-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/599,171
FILING DATE: 09-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/01094
FILING DATE: 21-January-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Halle, Ph.D., Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 09010/017001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1245 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...1242
US-08-646-590B-17

Query Match 70.0%; Score 14; DB 2; Length 1245;
Best Local Similarity 100.0%; Pred. No. 19;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 3 TTAGAGGACAG 16
Db 1069 TTAGAGGACAG 1056

RESULT 11
US-09-069-226-17/C
Sequence 17, Application US/09069226
Patent No. 6013509
GENERAL INFORMATION:
APPLICANT: WARREN, Patrick V.
TITLE OF INVENTION: TRANSAMINASES AND AMINOTRANSFERASES
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESSES:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSEE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/069,226
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/599,171
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: HERRON, CHARLES J.
REGISTRATION NUMBER: 28,019
REFERENCE/DOCKET NUMBER: 331400-38
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1744
TELEFAX: 201-994-1700
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1245 NUCLEOTIDES
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
MOLECULE TYPE: GENOMIC DNA
US-09-069-226-17

Query Match 70.0%; Score 14; DB 3; Length 1245;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 TTAGAGGACAG 16
Db 1069 TTAGAGGACAG 1056

RESULT 12
US-09-412-184-17/C
Sequence 17, Application US/09412184
Patent No. 6268188
GENERAL INFORMATION:
APPLICANT: Warren, Patrick V.
APPLICANT: Swanson, Ronald V.
TITLE OF INVENTION: TRANSAMINASES AND AMINOTRANSFERASES
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla

STATE: CA
COUNTRY: US
Z12: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/412.184
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/646.590
FILING DATE: 08-May-1996
APPLICATION NUMBER: 08/599.171
FILING DATE: 09-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/01094
FILING DATE: 21-January-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Ph.D., Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 09010/017001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1245 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...1242
US-09-412-184-17

Query Match 70.0%; Score 14; DB 3; Length 1245;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTAGAGGAGACAG 16
|||||
Db 1069 TTAGAGGAGACAG 1056

RESULT 13
US-09-232-160-6/c
Sequence 6, Application US/09232160
Patent No. 6368794
GENERAL INFORMATION:
APPLICANT: Steve Daniel
APPLICANT: James Gilmore
APPLICANT: Susan G. Stuart
APPLICANT: Laura Stuve
TITLE OF INVENTION: DETECTION OF ALTERED EXPRESSION OF GENES REGULATING CELL
FILE REFERENCE: PA-0003 US
CURRENT APPLICATION NUMBER: US/09/232,160
FILING DATE: 1999-01-15
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PERL Program
SEQ ID NO 6
LENGTH: 1585
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: 1698542
US-09-232-160-6

Query Match 70.0%; Score 14; DB 4; Length 1585;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GAGGACAGTCCC 20
|||||
Db 536 GAGGACAGTCCC 523

RESULT 14
US-08-480-784-21/c
Sequence 21, Application US/08480784
Patent No. 5693473
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kand, Alexander
APPLICANT: Harshman, Keith D.
APPLICANT: Shattuck-Bidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Futreal, P. Andrew
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,784
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO

ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-480-784-21

Query Match 70.0%; Score 14; DB 1; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CCTAGAGAGACA 14
|||||
Db 3770 CCTAGAGAGACA 3757

RESULT 15
US-08-483-553-21/c
Sequence 21, Application US/08483553
Patent No. 5709999
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamd, Alexander
APPLICANT: Harshman, Keith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavligian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Putreal, P. Andrew
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,553
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs

TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-483-553-21

Query Match 70.0%; Score 14; DB 1; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CCTAGAGAGACA 14
|||||
Db 3770 CCTAGAGAGACA 3757

RESULT 16
US-08-487-002-21/c
Sequence 21, Application US/08487002
Patent No. 5710001
GENERAL INFORMATION:
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Simard, Jacques
APPLICANT: Emi, Mitsuru
APPLICANT: Nakamura, Yusuke
APPLICANT: Driocher, Francine
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,002
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs

TYPE: nucleic acid.
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-487-002-21

Query Match 70.0%; Score 14; DB 1; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTTAGGAGGACCA 14
Db 3770 CCTTAGGAGGACCA 3757

RESULT 17
US-08-483-554B-21/C
Sequence 21, Application US/08483554B
Patent No. 5747282
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Harshman, Keith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Futreal, P. Andrew
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,554B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-483-554B-21

Query Match 70.0%; Score 14; DB 1; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTTAGGAGGACCA 14
Db 3770 CCTTAGGAGGACCA 3757

RESULT 18
US-08-488-011B-21/C
Sequence 21, Application US/08488011B
Patent No. 5753441
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Harshman, Keith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Futreal, P. Andrew
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,011B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994

ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347-09
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-488-011B-21

Query Match 70.0%; Score 14; DB 1; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTAGGAGGACA 14
Db 3770 CCTTAGGAGGACA 3757

RESULT 19
US-08-850-727-21/c
Sequence 21, Application US/08850727
Patent No. 6162897

GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Harshman, Keith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavligian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Futreal, P. Andrew
TITLE OF INVENTION: 17q-linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/850,727
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/483,554
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-850-727-21

Query Match 70.0%; Score 14; DB 3; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTAGGAGGACA 14
Db 3770 CCTTAGGAGGACA 3757

RESULT 20
PCT-US95-10202-21/c
Sequence 21, Application PC/TUS9510202

GENERAL INFORMATION:
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Simard, Jacques
APPLICANT: Emi, Mitsuru
APPLICANT: Nakamura, Yusuke
APPLICANT: Durocher, Francine
TITLE OF INVENTION: In Vivo Mutations and Polymorphisms
TITLE OF INVENTION: in the 17q-linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10202
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08-308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Imnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-8300
FILING DATE: 12-AUG-1994
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
PCT-US95-10202-21

Query Match 70.0%; Score 14; DB 5; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CCTTAGAGGAGACA 14
|||
Db 3770 CCTTAGAGGAGACA 3757

RESULT 21
PCT-US95-10203-21/c
Sequence 21, Application PC/TUS9510203
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Hareham, Keith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Futreal, P. Andrew
TITLE OF INVENTION: 17q-Linked Breast and Ovarian Cancer
TITLE OF INVENTION: Susceptibility Gene
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10203
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,305
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/348,824
FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08-308,104
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,266
FILING DATE: 02-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/289,221
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Imnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24884-109347
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-8300
FILING DATE: 12-AUG-1994
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4249 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
PCT-US95-10203-21

Query Match 70.0%; Score 14; DB 5; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CCTTAGAGGAGACA 14
|||
Db 3770 CCTTAGAGGAGACA 3757

RESULT 22
PCT-US95-10220-21/c
Sequence 21, Application PC/TUS9510220
GENERAL INFORMATION:
APPLICANT: Skolnick, Mark H.
APPLICANT: Goldgar, David E.
APPLICANT: Miki, Yoshio
APPLICANT: Swenson, Jeff
APPLICANT: Kamb, Alexander
APPLICANT: Hareham, Keith D.
APPLICANT: Shattuck-Eidens, Donna M.
APPLICANT: Tavtigian, Sean V.
APPLICANT: Wiseman, Roger W.
APPLICANT: Futreal, P. Andrew
TITLE OF INVENTION: Method for Diagnosing a
TITLE OF INVENTION: Predisposition for Breast and Ovarian Cancer
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10220
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/409,305
; FILING DATE: 24-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/348,824
; FILING DATE: 29-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08-308,104
; FILING DATE: 16-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/300,266
; FILING DATE: 02-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/289,221
; FILING DATE: 12-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Immen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24884-109347
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4249 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; PCT-US95-10220-21

Query March 70.0%; Score 14; DB 5; Length 4249;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTAGAGAGACA 14
Db 3770 CCTTAGAGAGACA 3757

RESULT 23
US-08-746-411A-9/c
; Sequence 9, Application US/08746411A
; Patent No. 6117632
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J
; TITLE OF INVENTION: Peptides Which Enhance Transport Across
; TITLE OF INVENTION: Tissues and Methods of Identifying and Using the Same
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Mary L. Severson, Ph.D., Esq.
; STREET: 1300 Gould Drive
; CITY: Gainesville
; STATE: GA
; COUNTRY: USA
; ZIP: 30504
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/746,411A
; FILING DATE: 08-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/006461
; FILING DATE: 10-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IE 950865
; FILING DATE: 10-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Severson, Mary L.
; REGISTRATION NUMBER: 34,927
; REFERENCE/DOCKET NUMBER: 96,1060, US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 770 534-8239
; TELEFAX: 770 534-8247
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "individual isolate"
; US-08-746-411A-9

Query March 65.0%; Score 13; DB 3; Length 126;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TAGGAGAGACAG 16
Db 37 TAGGAGAGACAG 25

RESULT 24
US-08-857-046A-9/c
; Sequence 9, Application US/08857046A
; Patent No. 6361938
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J
; APPLICANT: Alvarez, Vernon L
; APPLICANT: Seveso, Michele
; TITLE OF INVENTION: Peptides Which Enhance Transport Across
; TITLE OF INVENTION: Tissues and Methods of Identifying and Using the Same
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Mary L. Severson, Ph.D., Esq.
; STREET: 1300 Gould Drive
; CITY: Gainesville
; STATE: GA
; COUNTRY: USA
; ZIP: 30504
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/857,046A
; FILING DATE: 15-MAY-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/006461
; FILING DATE: 10-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IE 950864
; FILING DATE: 10-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/746,411
; FILING DATE: 08-NOV-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/IE96/00073

```

FILING DATE: 11-NOV-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/IE96/00072
FILING DATE: 11-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: Severson, Mary L
REGISTRATION NUMBER: 34,927
REFERENCE/DOCKET NUMBER: 97,1061.US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 770 534-8239
TELEFAX: 770 534-8247
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 126 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "individual isolate"
US-08-857-046A-9

Query Match 65.0%; Score 13; DB 4; Length 126;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 TAGAGGAGCAAG 16
|||
Db 37 TAGAGGAGCAAG 25

RESULT 25
US-09-573-252-9/c
Sequence 9, Application US/09573252
Patent No. 6521737
GENERAL INFORMATION:
APPLICANT: O'Mahony, Daniel J
TITLE OF INVENTION: Peptides Which Enhance Transport Across
Tissues and Methods of Identifying and Using the Same
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSER: Mary L. Severson, Ph.D., Esq.
STREET: 1300 Gould Drive
CITY: Gainesville
STATE: GA
COUNTRY: USA
ZIP: 306504
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/573,252
FILING DATE: 19-Aug-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/746,411
FILING DATE: 08-NOV-1996
APPLICATION NUMBER: US 60/006461
FILING DATE: 10-NOV-1995
APPLICATION NUMBER: IE 950865
FILING DATE: 10-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Severson, Mary L
REGISTRATION NUMBER: 34,927
REFERENCE/DOCKET NUMBER: 96,1060.US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 770 534-8239
TELEFAX: 770 534-8247
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 126 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "individual isolate"
US-09-573-252-9

Query Match 65.0%; Score 13; DB 4; Length 126;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 TAGAGGAGCAAG 16
|||
Db 37 TAGAGGAGCAAG 25

RESULT 26
US-08-248-474-23/c
Sequence 23, Application US/08248474
Patent No. 5612471
GENERAL INFORMATION:
APPLICANT: MCK, BIRD, David
TITLE OF INVENTION: NEMATODE-INDUCE GENES IN TOMATO
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend Kourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/248,474
FILING DATE: 25-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-535
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 243 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Lycopersicon esculentum cv 'Rutgers Large
ORGANISM: Red'
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..243
OTHER INFORMATION: /standard_name="DB# 139"
US-08-248-474-23

Query Match 65.0%; Score 13; DB 1; Length 243;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3 TTAGAGGAGCA 15
|||
Db 133 TTAGAGGAGCA 121

```
RESULT 27
US-08-756-849-23/c
; Sequence 23, Application US/08756849
; Patent No. 6093810
; GENERAL INFORMATION:
; APPLICANT: Bird, David MCK.
; APPLICANT: Wilson, Mark A.
; TITLE OF INVENTION: Nematode-Induced Genes in Tomato
; NUMBER OF SEQUENCES: 129
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,849
; FILING DATE: 26-NOV-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/248,474
; FILING DATE: 25-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-053510US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 243 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Lycopersicon esculentum cv 'Rutgers Large Red'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..243
; OTHER INFORMATION: /standard_name="DB# 139"
; US-08-756-849-23

Query Match          65.0%; Score 13; DB 3; Length 243;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      3 TTAGAGGAGACA 15
      ||| ||| ||| ||| |||
Db      133 TTAGAGGAGACA 121
```

```
RESULT 28
US-09-702-705-1692/c
; Sequence 1692, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
```

```
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1692
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(450)
; OTHER INFORMATION: n = A,T,C or G
; US-09-702-705-1692

Query Match          65.0%; Score 13; DB 4; Length 450;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      2 CTTAGGAGGAGACA 14
      ||| ||| ||| ||| |||
Db      235 CTTAGGAGGAGACA 223
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RESULT 29
US-09-736-457-1692/c
; Sequence 1692, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1692
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(450)
; OTHER INFORMATION: n = A,T,C or G
; US-09-736-457-1692

Query Match          65.0%; Score 13; DB 4; Length 450;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      2 CTTAGGAGGAGACA 14
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Db      235 CTTAGGAGGAGACA 223
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RESULT 30
US-08-244-205-4/c
; Sequence 4, Application US/08244205
; Patent No. 5952544
; GENERAL INFORMATION:
; APPLICANT: Browse, John, Kinney, Anthony J.,
```

APPLICANT: Pierce, John, Wierzbicki, Anna M.,
APPLICANT: Yadav, Narendra S., Perez-Grau, Luis
TITLE OF INVENTION: Fatty Acid Desaturase Genes
TITLE OF INVENTION: from Plants
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. du Pont de Nemours and Company
STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware
COUNTRY: U.S.A.
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,205
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/804,259
FILING DATE: 4 DECEMBER 1991
ATTORNEY/AGENT INFORMATION:
NAME: Floyd, Linda A.
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1036-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1525 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Arabidopsis thaliana
IMMEDIATE SOURCE:
CLONE: PACF2-2
FEATURE:
NAME/KEY: CDS
LOCATION: 10..1350
US-08-244-205-4

Query Match 65.0%; Score 13; DB 2; Length 1525;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGAGGACAACTC 18
|||||
Db 814 GGAGGACAACTC 802

RESULT 31
PCT-US92-10284-4/c
Sequence 4, Application PC/TUS9210284
GENERAL INFORMATION:
APPLICANT: Browne, John, Kinney, Anthony J.,
APPLICANT: Pierce, John, Wierzbicki, Anna M.,
APPLICANT: Yadav, Narendra S., Perez-Grau, Luis
TITLE OF INVENTION: Fatty Acid Desaturase Genes
TITLE OF INVENTION: from Plants
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. du Pont de Nemours and Company
STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware

COUNTRY: U.S.A.
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10284
FILING DATE: 19921203
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/804,259
FILING DATE: 4 DECEMBER 1991
ATTORNEY/AGENT INFORMATION:
NAME: Floyd, Linda A.
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1036-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1525 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Arabidopsis thaliana
IMMEDIATE SOURCE:
CLONE: PACF2-2
FEATURE:
NAME/KEY: CDS
LOCATION: 10..1350
PCT-US92-10284-4

Query Match 65.0%; Score 13; DB 5; Length 1525;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGAGGACAACTC 18
|||||
Db 814 GGAGGACAACTC 802

RESULT 32
PCT-US94-01321-9/c
Sequence 9, Application PC/TUS9401321
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Altered linolenic and linoleic Acid Content
TITLE OF INVENTION: in Plants
NUMBER OF SEQUENCES: 72
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/01321
FILING DATE: 04-FEB-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/156551
FILING DATE: 22-NOV-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/014431
FILING DATE: 05-FEB-1993
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:

LENGTH: 1645 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 125..1465
PCT-US94-01321-9

Query Match 65.0%; Score 13; DB 5; Length 1645;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 6 GGAGGACAACTC 18
DB 929 GGAGGACAACTC 917

RESULT 33
US-09-389-956-79/c
Sequence 79, Application US/09389956
Patent No. 6586579
GENERAL INFORMATION:
APPLICANT: Huang, Shi
TITLE OF INVENTION: PR-Domain Containing Nucleic Acids, Polypeptides,
FILE REFERENCE: P-LJ 3611
CURRENT APPLICATION NUMBER: US/09/389,956
CURRENT FILING DATE: 1999-09-03
NUMBER OF SEQ ID NOS: 93
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 79
LENGTH: 1970
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(1596)
US-09-389-956-79

Query Match 65.0%; Score 13; DB 4; Length 1970;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 5 AGGAGAACAACT 17
DB 139 AGGAGAACAACT 127

RESULT 34
US-10-020-079-39/c
Sequence 39, Application US/10020079
Patent No. 6579710
GENERAL INFORMATION:
APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Mathur, Brian
TITLE OF INVENTION: No. 6579710el Human Kinases and Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0281-USA
CURRENT APPLICATION NUMBER: US/10/020,079
CURRENT FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: US 60/255,103
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 60/289,422
PRIOR FILING DATE: 2001-05-08
NUMBER OF SEQ ID NOS: 40
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 39
LENGTH: 2517
TYPE: DNA
ORGANISM: homo sapiens
US-10-020-079-39

Query Match 65.0%; Score 13; DB 4; Length 2517;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGAACAA 14
DB 1296 CTTAGGAGAACAA 1284

RESULT 35
US-10-020-079-37/c
Sequence 37, Application US/10020079
Patent No. 6579710
GENERAL INFORMATION:
APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Mathur, Brian
TITLE OF INVENTION: No. 6579710el Human Kinases and Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0281-USA
CURRENT APPLICATION NUMBER: US/10/020,079
CURRENT FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: US 60/255,103
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 60/289,422
PRIOR FILING DATE: 2001-05-08
NUMBER OF SEQ ID NOS: 40
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 37
LENGTH: 2556
TYPE: DNA
ORGANISM: homo sapiens
US-10-020-079-37

Query Match 65.0%; Score 13; DB 4; Length 2556;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGAACAA 14
DB 1335 CTTAGGAGAACAA 1323

Search completed: August 15, 2003, 11:00:20
Job time : 36.25 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 20:57:44 ; Search time 126 Seconds
(without alignments)
428.482 Million cell updates/sec

Title: US-10-074-620-2
Perfect score: 20
Sequence: 1 ccttagagagaacagtcgcc 20

Scoring table: Oligo_NUC
Gapop 60.0, Gapext 60.0

Searched: 2552756 seqs, 1349719017 residues

Word size: 0

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 120 summaries

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24: /SIDSI1/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*
25: /SIDSI1/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	* Query	Match Length	DB ID	Description
1	20	100.0	20	16	AAQ91012
2	20	100.0	20	24	ABAO0269
3	20	100.0	2721	6	AAAS0114
4	20	100.0	5931	16	AAAT04821
5	16	80.0	535	24	ABV96868
6	16	80.0	556	24	ABV99010
7	16	80.0	2376	22	AAH62708
8	16	80.0	6572	22	AAI58931

9	16	80.0	7445	22	ABA09554	Human guanine nucl
10	16	80.0	7445	22	AAK51763	Human polynucleoti
11	16	80.0	7445	22	AAK52747	Human polynucleoti
12	16	80.0	7445	22	AAI60717	Human polynucleoti
13	16	80.0	7843	25	AAAS82621	DNA encoding novel
14	16	80.0	9501	23	AAAC50083	Breast cancer asso
15	16	80.0	9783	24	ABK94929	Human novel polynu
16	16	80.0	9785	23	ABV22178	Human prostate exp
17	16	80.0	9785	23	ABV28017	Human prostate exp
18	16	80.0	180557	23	ABN85750	Human BAC clone RP
19	16	80.0	305107	22	AAH62689	Shrimp white spot
20	15	75.0	123	21	AAAC20071	Human secreted pro
21	15	75.0	762	24	ABK99951	DNA encoding human
22	15	75.0	1691	24	ABZ66827	Arabidopsis thalia
23	15	75.0	17255	23	ABL29548	Drosophila melanog
24	15	75.0	53226	25	ABO76886	Human G-protein co
25	14	70.0	125	15	AAO76831	Human genome fragm
26	14	70.0	273	25	ABX30187	Human GDP-mannose
27	14	70.0	300	20	AAK98339	Human cancer cell
28	14	70.0	344	23	ABV06501	Human prostate exp
29	14	70.0	357	21	AAAC03189	Human secreted pro
30	14	70.0	408	22	AAK58136	Novel human diagno
31	14	70.0	409	20	AAK55494	Rice Cmt1 homology
32	14	70.0	442	22	AAK26323	Human CDNA encodin
33	14	70.0	442	25	ABX73664	Human novel polynu
34	14	70.0	467	23	ABV36454	Human prostate exp
35	14	70.0	477	22	ABA43976	Human breast cell
36	14	70.0	477	22	AAK02723	Human brain expres
37	14	70.0	477	22	AAK28164	Human bone marrow
38	14	70.0	477	24	ABSO2670	Human genome-deriv
39	14	70.0	484	24	ABN95344	Gene #1842 used to
40	14	70.0	484	24	ABN66312	Lung cancer relate
41	14	70.0	494	21	AAK79263	Human immune/haema
42	14	70.0	505	21	AAK35496	Human prostate exp
43	14	70.0	688	23	ABV24146	Human prostate thalia
44	14	70.0	784	22	AAI95704	Human neuroblastom
45	14	70.0	784	22	AAK25868	Human CDNA encodin
46	14	70.0	788	25	ABX73209	Human novel polynu
47	14	70.0	813	22	AAH04091	Human CDNA clone (
48	14	70.0	834	21	AAH06579	Human immunogenic
49	14	70.0	834	22	AAK63788	Human prostate CDN
50	14	70.0	854	22	AAH93695	Human prostate-spe
51	14	70.0	854	22	AAH85009	Human prostate-spe
52	14	70.0	854	22	AAH02760	Prostate tumour an
53	14	70.0	854	22	AAH86942	Human P776P invent
54	14	70.0	854	25	ABJ95159	Human P776P CDNA s
55	14	70.0	854	25	AAK59586	Prostate cancer th
56	14	70.0	1144	18	ABL27133	DNA encoding Aquif
57	14	70.0	1245	23	AAK78772	Aquifex aspartate
58	14	70.0	1245	25	ABK70949	Novel human CDNA s
59	14	70.0	1541	25	AAH13876	Human CDNA sequenc
60	14	70.0	1632	21	AAK44045	Zea mays DNA fragm
61	14	70.0	1701	21	AAH45659	Human protease reg
62	14	70.0	1733	22	AAH45659	Human protease reg
63	14	70.0	1821	21	AAK51101	Arabidopsis thalia
64	14	70.0	3134	23	ABL27132	Drosophila melanog
65	14	70.0	3522	23	ABK71253	Human brain-deriv
66	14	70.0	3529	22	AAH76684	Human transcriptio
67	14	70.0	4619	23	ABK71386	Human testes-deriv
68	14	70.0	4809	22	AAK63924	Human prostate CDN
69	14	70.0	4809	22	AAK93831	Human prostate-spe
70	14	70.0	4809	24	ABL95295	Human P776P CDNA s
71	14	70.0	4809	25	AAK59732	Prostate cancer th
72	14	70.0	6250	22	AAJ36600	Human musculocele
73	14	70.0	6250	25	ABK59588	CDNA encoding nove
74	14	70.0	6251	22	AAJ36603	Human musculocele
75	14	70.0	6251	25	ABK59591	CDNA encoding nove
76	14	70.0	9636	22	AAK90449	Human digestive sy
77	14	70.0	11446	22	AAK90464	Human digestive sy
78	14	70.0	16607	22	ABK18349	Human nervous syst
79	14	70.0	16607	22	ABK18349	Human reproductive
80	14	70.0	16607	23	ABK18349	Human testicular a
81	14	70.0	16738	22	AAK70864	Human immune/haema

C 82	14	70.0	24025	17	AAT17455	Mutated BRCA1 geno
C 83	14	70.0	24025	17	AAT17515	Mutated BRCA1 geno
C 84	14	70.0	24026	17	AAT17512	Mutated BRCA1 geno
C 85	14	70.0	24026	17	AAT17512	Mutated BRCA1 geno
C 86	14	70.0	24026	17	AAT17513	Mutated BRCA1 geno
C 87	14	70.0	24026	17	AAT17514	Mutated BRCA1 geno
C 88	14	70.0	24026	17	AAT17516	Mutated BRCA1 geno
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C 91	14	70.0	24026	17	AAT17519	Mutated BRCA1 geno
C 92	14	70.0	24026	17	AAT17521	Mutated BRCA1 geno
C 93	14	70.0	24026	17	AAT17522	Mutated BRCA1 geno
C 94	14	70.0	24026	17	AAT17523	Mutated BRCA1 geno
C 95	14	70.0	24026	17	AAT17524	Mutated BRCA1 geno
C 96	14	70.0	24026	17	AAT17526	Mutated BRCA1 geno
C 97	14	70.0	24026	17	AAT17527	Mutated BRCA1 geno
C 98	14	70.0	24026	17	AAT17528	Mutated BRCA1 geno
C 99	14	70.0	24026	17	AAT17529	Mutated BRCA1 geno
C 100	14	70.0	24026	17	AAT17530	Mutated BRCA1 geno
C 101	14	70.0	24026	17	AAT17532	Mutated BRCA1 geno
C 102	14	70.0	24029	17	AAT17520	Mutated BRCA1 geno
C 103	14	70.0	24031	17	AAT17525	Mutated BRCA1 geno
C 104	14	70.0	25574	22	AAL05619	Human reproductive
C 105	14	70.0	25574	22	AAK79671	Human immune/haema
C 106	14	70.0	25574	22	AAK83760	Human reproductive
C 107	14	70.0	25576	22	AAK05618	Human immune/haema
C 108	14	70.0	25576	22	AAK79669	Human immune/haema
C 109	14	70.0	25576	22	AAK83758	Human immune/haema
C 110	14	70.0	25576	22	AAK85305	Human immune/haema
C 111	14	70.0	77425	24	ABK83502	Human cDNA differe
C 112	14	70.0	567571	25	AAD53224	Human chromosome 3
C 113	14	70.0	1691080	24	ABX08336	Human phospholipase
C 114	13	65.0	114	19	AAV44485	tRNA-Lys3 pseudoge
C 115	13	65.0	126	18	AAT68500	Clone (individual)
C 116	13	65.0	126	18	AAT68881	Clone (individual)
C 117	13	65.0	242	22	ABAI1686	Human nervous syst
C 118	13	65.0	243	17	AAT09746	Tomato genomic DNA
C 119	13	65.0	286	24	ABL73501	Corn tassell-derive
C 120	13	65.0	294	24	ABL75621	Corn tassell-derive

ALIGNMENTS

RESULT 1

AAQ91012 standard; DNA, 20 BP.

AAQ91012;

01-FEB-1996 (first entry)

Primer binding to 3' end of EBV nuc antigen gene.

Primer; PCR; amplification; DNA polymerase; exonuclease; Pfu; Taq;
 Klenow fragment; T4; T7; Deep Vent; synthesis; mismatch; human; antibody;
 heavy chain variable region; ss.

Synthetic.

MO9516028-A1.

15-JUN-1995.

07-DEC-1994; 94WO-US14065.

16-FEB-1994; 94US-0197791.

08-DEC-1993; 93US-0164290.

(STR-A) STRATAGENE.

Millimax RL, Sarge JA;

XX

WPI; 1995-224316/29.

Composn. useful for polynucleotide synthesis and cyclical

amplification - comprising a mixt. contg. an enzyme with 3'-5'

exo-nuclease activity and a DNA polymerase with less 3'-5'

Examples; Page 35; 66pp; English.

primers AAQ90984-Q91028 are examples of primers for testing a novel
 composition for polynucleotide synthesis comprising a DNA polymerase
 with high 3'-5' exonuclease activity in conjunction with a DNA polymerase
 with less 3'-5' exonuclease activity, pref. Pfu and Taq DNA polymerases
 respectively. Other DNA polymerases containing high 3'-5' exonuclease
 activity include E. coli DNA polymerase I, Klenow fragment, T4, T7, Vent
 or Deep Vent DNA polymerases. The use of a DNA polymerase with high
 3'-5' exonuclease activity is designed to overcome the inability of DNA
 polymerases with low 3'-5' exonuclease activities to initiate synthesis
 from primers containing 3' terminal mismatches, e.g. due to errors
 introduced during a PCR cycle.
 This primer binds to a region at the 5' end of the Epstein-Barr virus
 nuc antigen gene.

Sequence 20 BP; 6 A; 6 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 20; DB 16; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.078;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 CCTTAGAGAGCAACATGCC 20

1 CCTTAGAGAGCAACATGCC 20

RESULT 2

ABA00269 standard; DNA, 20 BP.

ABA00269;

29-NOV-2002 (first entry)

EBNA 2 primer, Position 90249;90269.

Primer; amplify; PCR; probe; detection; Epstein-Barr virus; EBV; ss.

Epstein-barr virus.

WO200264842-A2.

22-AUG-2002.

13-FEB-2002; 2002WO-US04339.

13-FEB-2001; 2001US-268439P.

(CHIL-) CHILDRENS HOSPITAL RES FOUNDP.

Witte DP, Groen PA;

WPI; 2002-667015/71.

New compositions comprising nucleic acid sequences which specifically
 hybridizes to Epstein-Barr virus (EBV) nucleic acid, for detecting EBV
 in clinical specimens to determine patients at high risk of to
 developing EBV infections

Claim 1; Page 44; 59pp; English.

The sequences given in ABA00268-75 are primers and probes which were
 used in the compositions of the invention for the detection of
 Epstein-Barr virus (EBV). The compositions comprise at least one
 purified and isolated oligonucleotide consisting of a nucleic acid

CC sequence which complements and specifically hybridizes to EBV nucleic
CC acid. The oligonucleotide sequences and compositions comprising them
CC are useful for detecting EBV in clinical specimens to determine
CC patients who are at high risk to develop serious and costly medical
CC complications, and allow for better clinical management of these
CC patients by earlier recognition of their infection status. The
CC oligonucleotide sequences may also be used to amplify EBV DNA
CC sequences. The use of the oligonucleotide sequences in the assay for
CC detecting EBV has a broad dynamic range of detection from less than
CC 10-100000000 copies of EBV DNA, is less labour intensive, requiring only
CC one reaction tube for the EBV determination, highly sensitive, accurate
CC and has a rapid turn around time with assays that are completed,
CC including amplification, probe specific hybridization, and calculation
CC of copy number in less than 1 hour. The method may be adapted to
CC automated systems.
CC
SQ Sequence 20 BP; 6 A; 6 C; 5 G; 3 T; 0 other;
Query Match 100.0%; Score 20; DB 24; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCTTAGAGAGACAAGTCCC 20
DB 1 CCTTAGAGAGACAAGTCCC 20
RESULT 3
AAN50114
ID AAN50114 standard; DNA; 2721 BP.
XX
XX AAN50114;
AC
XX 25-MAR-2003 (updated)
DT 17-OCT-1991 (first entry)
XX
XX DNA sequence encoding Epstein-Barr virus (EBV) outer surface protein.
DE
XX Epstein-Barr virus; antigen; vaccine; ss.
KW
XX
XX Epstein-Barr virus.
OS
XX
XX Key Location/Qualifiers
FH mat_peptide 1..2721
FT /*tag= a
FT /label= EBV surface protein antigen
XX
XX
XX EPI51079-A.
PN
XX
XX 07-AUG-1985.
PD
XX
XX 28-JAN-1985; 85EP-0400141.
XX
XX 23-JUL-1984; 84US-0633558.
XX
XX 30-JAN-1984; 84US-0575352.
XX
XX (UYCH-) UNIV CHICAGO.
PA
XX
XX Kieff E, Tanner J, Hummel M, Belsel C;
PI
XX
XX WPI; 1985-191978/32.
XX
XX P-PSDB; AAP50073.
DR
XX
XX New fragment of Epstein-Barr Virus DNA - useful in vector to
PT express polypeptide for use in prepn. of vaccine against the
PT virus and for use in diagnosis.
PT
XX
XX
XX Claim 1; Page 21-23; 26pp; English.
XX
XX The sequence encodes an outer surface viral protein of EBV, used
CC to generate antibodies reacting with the surface proteins of
CC EBV-infected cells, and in the preparation of a vaccine against EBV.
CC (Updated on 25-MAR-2003 to correct PA field.)

XX
SQ Sequence 2721 BP; 762 A; 876 C; 557 G; 526 T; 0 other;
Query Match 100.0%; Score 20; DB 6; Length 2721;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCTTAGAGAGACAAGTCCC 20
DB 1886 CCTTAGAGAGACAAGTCCC 1905
RESULT 4
AAT04821
ID AAT04821 standard; cDNA; 5931 BP.
XX
XX
XX AAT04821;
AC
XX
XX 18-JAN-1996 (first entry)
DT
XX
XX EBV gp350/220 cDNA.
DE
XX
XX EBV; gp350; gp220; gp350/gp220; non-splicing variant; vaccine; ds.
KM
XX
XX Epstein-Barr virus.
OS
XX
XX Key Location/Qualifiers
FH CDS 1014..3737
FT /*tag= a
FT 1014..1067
FT s1g_peptide /*tag= b
FT 1068..3734
FT mat_peptide /*tag= c
FT 2514..2515
FT misc_feature /*tag= d
FT /*function= splice donor site
FT /note= "bases 2513-2517 (AAGT) are replaced by
FT GTCG in the non-splicing variant"
FT
FT misc_feature 3105..3106
FT /*tag= e
FT /*function= splice acceptor site
FT /note= "bases 3104-3107 (AAGT) are replaced by
FT TCGA in the non-splicing variant"
FT
FT polyA_signal 3742..3747
FT /*tag= f
XX
XX
XX W09528488-A1.
PN
XX
XX 26-OCT-1995.
PD
XX
XX 13-APR-1995; 95WO-US04611.
XX
XX 18-APR-1994; 94US-0229291.
XX
XX (AVIR-) AVIRON.
PA
XX
XX Jackman WT, Spaete R;
PI
XX
XX WPI; 1995-373802/48.
XX
XX P-PSDB; AAR80144.
DR
XX
XX New DNA encoding a homogeneous gp350 protein - can be used for
PT preventing and treating Epstein-Barr virus-related diseases or
PT conditions
PT
XX
XX
XX Claim 2; Fig.1; 61pp; English.
XX
XX The donor and acceptor splice sites of the EBV gene encoding gp350/
CC 220 are mutated by replacement of native nucleotides by non-native
CC nucleotides, without altering the encoded amino acid sequence,
CC resulting in elimination of gp220 prodn. Recombinant homogeneous
CC gp350, useful in vaccines, is expressed in mammalian or insect cell
CC hosts.

XX SQ Sequence 5931 BP; 1453 A; 1782 C; 1437 G; 1259 T; 0 other;
Query Match 100.0%; Score 20; DB 16; Length 5931;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 CCTAGAGAGAACAGTCCC 20
Db 2899 CCTAGAGAGAACAGTCCC 2918

RESULT 5
ABV96868
ID ABV96868 standard; cDNA; 535 BP.
XX AC ABV96868;
XX DT 14-JAN-2003 (first entry)
XX DE Human pancreatic cancer expressed cDNA SEQ ID NO 2276.
XX KM Human; pancreas; cancer; gene therapy; vaccine; immunostimulant;
XX KW cytosolic; tumour; gene; ss.
XX OS Homo sapiens.
XX PN WO200260317-A2.
XX PD 08-AUG-2002.
XX PF 30-JAN-2002; 2002WO-US02781.
XX PR 30-JAN-2001; 2001US-265305P.
XX PR 31-JAN-2001; 2001US-265682P.
XX PR 09-FEB-2001; 2001US-267568P.
XX PR 21-MAR-2001; 2001US-278651P.
XX PR 28-APR-2001; 2001US-287112P.
XX PR 16-MAY-2001; 2001US-291631P.
XX PR 12-JUL-2001; 2001US-305484P.
XX PR 20-AUG-2001; 2001US-313999P.
XX PR 27-NOV-2001; 2001US-333626P.
XX PA (CORI-) CORIXA CORP.
XX PI Benson DR, Kalos MD, Lodes MJ, Persing DH, Hepler WT, Jiang Y;
XX DR WPI; 2002-627435/67.
XX PT New isolated polynucleotide and pancreatic tumor polypeptides, useful
XX PT for diagnosing, preventing and/or treating cancer, particularly
XX PT pancreatic cancer -
XX PS Claim 1; SEQ ID NO 2276; 300pp + Sequence Listing; English.

The invention relates to an isolated polynucleotide (I) comprising: (a) any of a group of over 4000 nucleotide sequences (ABV94628-ABV9145); (b) complements of (a); (c) sequences consisting of at least 20 contiguous residues of (a); (d) sequences that hybridize to (a), under moderately stringent conditions; (e) sequences having at least 75% or 90% identity to (a); or (f) degenerate variants of (a). Polypeptides (ABP68596-ABP68637) encoded by (I) and oligonucleotide can be used to detect cancer in a patient and compositions comprising polypeptides, polynucleotides, antibodies, fusion proteins, T cell populations and antigen presenting cells expressing the polypeptide are useful in treating pancreatic cancer and stimulating an immune response. The polynucleotides can be used as probes or primers for nucleic acid hybridisation, in the design and preparation of ribozyme molecules for inhibiting expression of the tumour polypeptides and proteins in the tumour cells, in vaccines and for gene therapy.
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 535 BP; 171 A; 112 C; 104 G; 148 T; 0 other;
Query Match 80.0%; Score 16; DB 24; Length 535;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 2 CTTAGAGAGAACAGT 17
Db 87 CTTAGAGAGAACAGT 102

RESULT 6
ABV99010
ID ABV99010 standard; cDNA; 556 BP.
XX AC ABV99010;
XX DT 14-JAN-2003 (first entry)
XX DE Human pancreatic cancer expressed cDNA SEQ ID NO 4418.
XX KM Human; pancreas; cancer; gene therapy; vaccine; immunostimulant;
XX KW cytosolic; tumour; gene; ss.
XX OS Homo sapiens.
XX PN WO200260317-A2.
XX PD 08-AUG-2002.
XX PF 30-JAN-2002; 2002WO-US02781.
XX PR 30-JAN-2001; 2001US-265305P.
XX PR 31-JAN-2001; 2001US-265682P.
XX PR 09-FEB-2001; 2001US-267568P.
XX PR 21-MAR-2001; 2001US-278651P.
XX PR 28-APR-2001; 2001US-287112P.
XX PR 16-MAY-2001; 2001US-291631P.
XX PR 12-JUL-2001; 2001US-305484P.
XX PR 20-AUG-2001; 2001US-313999P.
XX PR 27-NOV-2001; 2001US-333626P.
XX PA (CORI-) CORIXA CORP.
XX PI Benson DR, Kalos MD, Lodes MJ, Persing DH, Hepler WT, Jiang Y;
XX DR WPI; 2002-627435/67.
XX PT New isolated polynucleotide and pancreatic tumor polypeptides, useful
XX PT for diagnosing, preventing and/or treating cancer, particularly
XX PT pancreatic cancer -
XX PS Claim 1; SEQ ID NO 4418; 300pp + Sequence Listing; English.

The invention relates to an isolated polynucleotide (I) comprising: (a) any of a group of over 4000 nucleotide sequences (ABV94628-ABV9145); (b) complements of (a); (c) sequences consisting of at least 20 contiguous residues of (a); (d) sequences that hybridize to (a), under moderately stringent conditions; (e) sequences having at least 75% or 90% identity to (a); or (f) degenerate variants of (a). Polypeptides (ABP68596-ABP68637) encoded by (I) and oligonucleotide can be used to detect cancer in a patient and compositions comprising polypeptides, polynucleotides, antibodies, fusion proteins, T cell populations and antigen presenting cells expressing the polypeptide are useful in treating pancreatic cancer and stimulating an immune response. The polynucleotides can be used as probes or primers for nucleic acid hybridisation, in the design and preparation of ribozyme molecules for inhibiting expression of the tumour polypeptides and proteins in the tumour cells, in vaccines and for gene therapy.
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 556 BP; 173 A; 117 C; 114 G; 152 T; 0 other;
SQ
Query Match 80.0%; Score 16; DB 24; Length 556;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 CTTAGAGAGAACAACT 17
Db 108 CTTAGAGAGAACAACT 123
RESULT 7
AAH62708
ID AAH62708 standard; DNA; 2376 BP.
XX
AC AAH62708;
XX
OS 11-SEP-2001 (first entry)
XX
DE Shrimp white spot Bacilliform virus (WSBV) gene 19.
XX
KW Shrimp white spot Bacilliform virus; WSBV; diagnosis; viral infection;
KM antiviral agent; gene expression; antisense construct;
XX transgenic viral resistant shrimp; ds.
XX
XX White spot syndrome virus.
XX
PN WO200138351-A2.
PD 31-MAY-2001.
XX
PF 08-NOV-2000; 2000WO-US28888.
XX
PR 24-NOV-1999; 99CN-0124717.
XX
PA (PENY-) PE CORP NY.
PA (THIR-) THIRD INST OCEANOGRAPHY STATE OCEANI C A.
PA (SINO-) SINOGENOMAX CO LTD.
XX
PI Xu X, Yang F, He J, Pham L, He M, Ye Y, Shen Y, Kodira C;
XX
DR WPI; 2001-355877/37.
XX
DR P-PSDB; AAG84928.
XX
PT Primary nucleotide sequence of the shrimp white spot Bacilliform virus
XX (WSBV), useful for producing viral polypeptides that can be used to
XX screen for agents that are useful for treating WSBV infection -
XX
PS Claim 4; Figure 3; 626bp; English.
XX
CC The invention provides the primary nucleotide sequence of the WSBV genome
CC (AAH62689), predicted transcript sequences (AAH62689-AAH62839) and
CC encoded proteins (AAG84910-AAG85051) and oligonucleotide sequences
CC (AAH62840-63160) suitable for use as primers or probes. The nucleic acid
CC monitoring viral infection. In screens for antiviral agents and for
CC monitoring viral gene expression or activity during a treatment regimen.
CC The nucleic acid molecules are also useful as antisense constructs to
CC control viral gene expression in infected cells and tissues and to create
CC transgenic viral resistant shrimp.
XX
SQ Sequence 2376 BP; 787 A; 467 C; 526 G; 596 T; 0 other;
Query Match 80.0%; Score 16; DB 22; Length 2376;
Best Local Similarity 100.0%; Pred. No. 9.3;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 5 AGGAGAGAACAACTCC 20
Db 793 AGGAGAGAACAACTCC 808

RESULT 8
AA158931
ID AA158931 standard; cDNA; 6572 BP.
XX
AC AA158931;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 1134.
XX
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia; ss.
XX
XX Homo sapiens.
XX
PN WO20015312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US34263.
XX
PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
XX (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang Z, Wehman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI; 2001-442253/47.
XX
DR P-PSDB; AAM39775.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
XX such as central nervous system injuries -
XX
PS Claim 1; SEQ ID NO 1134; 10078bp; English.
XX
CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localized neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
SQ Sequence 6572 BP; 1929 A; 1256 C; 1418 G; 1969 T; 0 other;
Query Match 80.0%; Score 16; DB 22; Length 6572;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 CTTAGAGAGAACAACT 17

Db 4524 CTTAGAGGAACACT 4539

RESULT 9

ID ABA09554

ABAO9554 standard; cDNA; 7445 BP.

XX ABA09554;

XX 11-JAN-2002 (first entry)

XX Human guanine nucleotide exchange factor homologue cDNA, SEQ ID NO:1330.

DE Human: cytokine; cell proliferation; cell differentiation; growth factor;

XX haematopoiesis regulation; tissue growth; immunomodulator; activin;

KW inhibit; chemotaxis; chemokinesis; thrombolysis; oncogenesis;

KW myeloid cell disorder; lymphoid cell disorder; asthma; arthritis;

KW chronic inflammatory condition; proliferative retinopathy;

KW atherosclerosis; coronary heart disease; arterial ischaemia;

KW bone disorder; osteoporosis; vascular growth disorder;

KW tissue regeneration; wound healing; infection; immune disorder;

KW cell culture; drug screening; gene therapy; antiinflammatory;

KW antiasthmatic; antiarthritic; haemostatic; antiarteriosclerotic;

KW cycstatic; osteoplastic; vasotropic; cardiant; virucide; antibacterial;

KW antifungal; vulnery; antitumor; ss.

XX

OS Homo sapiens.

XX WO200157188-A2.

PN 09-AUG-2001.

PD 05-FEB-2001; 2001WO-US03800.

PF 03-FEB-2000; 2000US-0496914.

PR 27-APR-2000; 2000US-0560875.

XX (HYSE-) HYSEQ INC.

PA Tang YT, Liu C, Drmanac RT;

PI WPI; 2001-457740/49.

DR P-PSDB; ABB12310.

XX Human proteins and DNA encoding sequences useful for preventing

PT treating or ameliorating a medical condition in a mammalian subject

XX e.g. arthritis and cancer -

PS Claim 1; Page 992-994; 1963jp; English.

XX Sequences ABB10991-ABB12330 represent 1350 novel human polypeptides, and

CC sequences ABA08225-ABA09574 represent nucleic acids encoding them. The

CC invention also relates to vectors and recombinant host cells comprising a

CC nucleotide of the invention, methods of producing the novel polypeptides,

CC antibodies against the polypeptides, methods of detecting the nucleotides

CC or polypeptides in a sample, and methods of identifying compounds which

CC bind to polypeptides of the invention. Although novel, many of the

CC polypeptides of the invention have homology to known proteins, thereby

CC giving an insight into their probable biological activities, and hence

CC potential therapeutic applications. The polypeptides of the invention may

CC have various activities, including cytokine, cell proliferation or cell

CC differentiation activities; stem cell growth factor activity;

CC haematopoiesis regulatory activity; tissue growth activity;

CC immunomodulatory activity; activin- or inhibin-related activities;

CC chemotactic or chemokinetic activities; haemostatic, thrombotic or

CC thrombolytic activities; receptor or ligand activities; or may be

CC involved in oncogenesis, cancer cell proliferation or metastasis.

CC Depending on their biological activities, polypeptides and nucleotides of

CC the invention are useful for preventing, treating or ameliorating medical

CC conditions, e.g., by protein or gene therapy. Such conditions include

CC cancers, haematopoietic disorders (e.g., myeloid or lymphoid cell

CC disorders), chronic inflammatory conditions (e.g., asthma or arthritis),

CC proliferative retinopathy, atherosclerosis, coronary heart disease,

CC arterial ischaemia, bone disorders (e.g., osteoporosis), and abnormal

CC vascular growth. Polypeptides involved with tissue regeneration and

CC repair (or nucleic acids encoding them) may be used to promote wound

CC healing (e.g., of burns, incisions and ulcers), while those with

CC immunomodulatory activities may be used in the treatment of viral,

CC bacterial and fungal infections in addition to immune disorders.

CC Polypeptides with growth factor activity may be used in cell cultures to

CC promote cell growth. For example, such polypeptides may be used to

CC manipulate stem cells in culture to give rise to neuroepithelial cells

CC that can be used to augment or replace cells damaged by illness,

CC autoimmune disease or accidental damage. The polypeptides and nucleotides

CC may also be used in the diagnosis of the above conditions, and in drug

CC screening techniques. The present sequence represents a cDNA encoding a

CC novel human polypeptide of the invention.

XX

SO Sequence 7445 BP; 2177 A; 1404 C; 1582 G; 2282 T; 0 other;

Query Match 80.0%; Score 16; DB 22; Length 7445;

Best Local Similarity 100.0%; Pred. No. 8.7;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 CTTAGAGGAACACT 17

Db 4492 CTTAGAGGAACACT 4507

RESULT 10

AAKS1763

ID AAKS1763 standard; cDNA; 7445 BP.

XX AAKS1763;

AC 06-NOV-2001 (first entry)

DT Human polynucleotide SEQ ID NO 308.

DE Human: cytokine; cell proliferation; cell differentiation; gene therapy;

XX vaccine; peptide therapy; stem cell growth factor; haematopoiesis;

KW tissue growth factor; immunomodulatory; cancer; leukaemia;

KW nervous system disorder; arthritis; inflammation; ss.

XX

OS Homo sapiens.

XX WO200157190-A2.

PN 09-AUG-2001.

PD 05-FEB-2001; 2001WO-US04098.

PF 03-FEB-2000; 2000US-0496914.

PR 27-APR-2000; 2000US-0560875.

XX 20-JUN-2000; 2000US-0598075.

PR 19-JUN-2000; 2000US-0620325.

PR 01-SEP-2000; 2000US-0654936.

PR 15-SEP-2000; 2000US-0653561.

PR 20-OCT-2000; 2000US-0693325.

XX 30-NOV-2000; 2000US-0728422.

XX (HYSE-) HYSEQ INC.

PA Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;

PI Zhao YA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;

PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;

XX WPI; 2001-476283/51.

DR P-PSDB; AAM78630.

XX Nucleic acids encoding polypeptides with cytokine-like activities,

PT useful in diagnosis and gene therapy -

XX Claim 1; Page 1279-1284; 6221jp; English.

CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activity/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.
XX
SQ Sequence 7445 BP; 2179 A; 1403 C; 1584 G; 2279 T; 0 other;
Query Match 80.0%; Score 16; DB 22; Length 7445;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGGACAAAGT 17
DB 4481 CTTAGGAGGACAAAGT 4496
RESULT 11
AAK52747
ID AAK52747 standard; cDNA; 7445 BP.
XX
AC AAK52747;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 2276.
XX
XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;
XX vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
XX tissue growth factor; immunomodulatory; cancer; leukaemia;
XX nervous system disorder; arthritis; inflammation; ss.
XX
OS Homo sapiens.
XX
PN WO200157190-A2.
XX
PD 09-AUG-2001.
XX
PF 05-FEB-2001; 2001WO-US04098.
XX
XX 03-FEB-2000; 2000US-0496914.
PR 27-APR-2000; 2000US-0560875.
PR 20-JUN-2000; 2000US-0598075.
PR 19-JUL-2000; 2000US-0620325.
PR 01-SEP-2000; 2000US-0654936.
PR 15-SEP-2000; 2000US-0663561.
PR 20-OCT-2000; 2000US-0663125.
PR 30-NOV-2000; 2000US-0728422.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y,
XX Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
XX Xue AB, Yang Y, Wehrman T, Goodrich R;
XX WPI; 2001-476283/51.
XX P-PSDB; AAM79614.
XX
XX Nucleic acids encoding polypeptides with cytokine-like activities,
XX useful in diagnosis and gene therapy -
XX Claim 1; Page 4614-4616; 6221pp; English.
XX The invention relates to polynucleotides (AAK51456-AAK53435) and the

CC encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activity/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.
XX
SQ Sequence 7445 BP; 2177 A; 1404 C; 1582 G; 2282 T; 0 other;
Query Match 80.0%; Score 16; DB 22; Length 7445;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGGACAAAGT 17
DB 4492 CTTAGGAGGACAAAGT 4507
RESULT 12
AAI60717
ID AAI60717 standard; cDNA; 7445 BP.
XX
AC AAI60717;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 4706.
XX
XX Human; neurotropic; immunosuppressant; cytostatic; gene therapy; cancer;
XX peripheral nervous system; neuropathy; central nervous system; CNS;
XX Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
XX amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
XX chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
XX leukaemia; ss.
XX
OS Homo sapiens.
XX
PN WO200153312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US34263.
XX
XX 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
XX Wang J, Wang Z, Wehrman T, Xu C, Xue AB, Yang Y, Zhang J;
XX Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX WPI; 2001-442253/47.
XX P-PSDB; AAM41561.
XX
XX Novel nucleic acids and polypeptides, useful for treating disorders
XX such as central nervous system injuries -
XX Claim 1; SEQ ID NO 4706; 10078pp; English.
XX

CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AA038642-AA042213) with neurotropic.
CC immunosuppressant and cytostatic activity. The polypeptides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
SQ Sequence 7445 BP; 2177 A; 1404 C; 1582 G; 2282 T; 0 other;
Query Match 80.0%; Score 16; DB 22; Length 7445;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGAACCAAGT 17
|||||
Db 4492 CTTAGGAGAACCAAGT 4507
RESULT 13
AAS82621
ID AAS82621 standard; cDNA; 7843 BP.
XX
AC AAS82621;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #18425.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Dmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
XX
P-ESDB; ABG18434.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
PS Claim 1; SEQ ID No 18425; 103bp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving

CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 7843 BP; 2262 A; 1492 C; 1682 G; 2403 T; 4 other;
Query Match 80.0%; Score 16; DB 23; Length 7843;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGAACCAAGT 17
|||||
Db 4761 CTTAGGAGAACCAAGT 4776
RESULT 14
ACC50083
ID ACC50083 standard; cDNA; 9501 BP.
XX
AC ACC50083;
XX
DT 12-JUN-2003 (first entry)
XX
DE Breast cancer associated cDNA sequence SEQ ID NO:14.
XX
KW Human; breast cancer; cytostatic; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003004989-A2.
XX
PD 16-JAN-2003.
XX
PE 21-JUN-2002; 2002WO-US19669.
XX
PF 21-JUN-2001; 2001US-299887P.
PR 27-JUN-2001; 2001US-301572P.
PR 18-JUN-2001; 2001US-306501P.
PR 25-SEP-2001; 2001US-325002P.
PR 05-MAR-2002; 2002US-362585P.
PR 14-MAY-2002; 2002US-380391P.
XX
PA (MTLL-) MILLENIUM PHARM INC.
XX
PI Lillie J, Gannavarapu M, Glatc K, Hoersh S, Kamatkar S, Mertens M;
PI Monahan JB, Myer V, Wang Y, Xu Y, Zhao X, Meyers RE, Bast RC;
PI Hortobagyi GN, Puzetel L, Meric F, Sahin A, Mills GB;
XX
DR WPI: 2003-210381/20.
XX
P-PSDB; ABR47392.
XX
PT Breast cancer diagnosis or treatment by comparing the level of
PT expression of a marker in a patient sample with that in the control
PT non-breast cancer sample -
XX
PS Claim 1; SEQ ID 14; 128bp; English.
XX
CC The present invention describes a method for assessing whether a patient
CC is afflicted with breast cancer. The method comprises comparing the level
CC of expression of a marker (gene/polypeptide see ACC50076 to ACC50334 and
CC ABR47386 to ABR47632) in a patient sample and the normal level of
CC expression of the marker in a control non-breast cancer sample, where a

CC significant increase in the level of expression of the marker in the
CC patient sample and the normal level is an indication that the patient is
CC afflicted with breast cancer. The breast cancer associated sequences
CC from the present invention have cytostatic activities and can be used in
CC gene therapy. The method is useful for diagnosing and treating breast
CC cancer.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).
SQ Sequence 9501 BP; 2816 A; 1872 C; 2078 G; 2735 T; 0 other;
Query Match 80.0%; Score 16; DB 25; Length 9501;
Best Local Similarity 100.0%; Pred. No. 8.6;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGGAACAAGT 17
Db 6556 CTTAGGAGGAACAAGT 6571
|||||
RESULT 15
ABK94929 standard; cDNA; 9783 BP.
XX
AC ABK94929;
XX
DT 30-AUG-2002 (first entry)
XX
DE Human novel polynucleotide #40.
XX
XX Human; gene; ss; inflammatory condition; shock; sepsis; immune response;
KW cancer; wound healing; central nervous system disease; haematopoiesis;
KW peripheral nervous system disease; amyotrophic lateral sclerosis; tendon;
KW myeloid cell disorder; lymphoid cell disorder; platelet disorder; bone;
KW cartilage; ligament; nerve tissue; ulcer; osteoporosis; osteoarthritis;
KW bone degenerative disorder; periodontal disease; reperfusion injury;
KW lung fibrosis; liver fibrosis; autoimmune disorder; bacterial infection;
KW allergic condition; thrombolytic; thrombosis; coagulation disorder;
KW fungal infection.
XX
OS Homo sapiens.
XX
PN WO200244340-A2.
XX
PD 06-JUN-2002.
XX
PF 30-NOV-2001; 2001WO-UG47004.
XX
PR 30-NOV-2000; 2000US-0028952.
XX
PA (HYSE-) HYSEQ INC.
PI Tang YT, Goodrich RW, Liu C, Zhou P, Asundi V, Wang J, Wang D;
PI Yamazaki V, Ujwal ML, Drmanac RT;
XX
XX WPI; 2002-508509/54.
DR P-PSDB; ABG66705.
XX
XX Novel nucleic acids and polypeptides for diagnosis, treatment of
PT inflammatory, autoimmune, nervous system, myeloid or lymphoid cell
PT disorders, cancer and promoting wound healing -
PS Claim 1; Page 425-434; 672pp; English.
XX
XX The invention relates to human novel polynucleotides and associated
CC polypeptides. The polynucleotides and polypeptides are useful for
CC treating inflammatory conditions such as arthritis, nephritis, Crohn's
CC disease, ischaemia-reperfusion injury, shock, sepsis, immune responses
CC and cancer and for promoting wound healing. The sequences are used to
CC induce the proliferation of neural cells and regeneration of nerve and
CC brain tissue, and are useful for the treatment of central and peripheral
CC nervous system diseases and neuropathies, such as Alzheimer's disease,

CC Parkinson's disease, Huntington's disease and amyotrophic lateral
CC sclerosis. The sequences are involved in chemotactic or chemokinetic
CC activity, regulation of haematopoiesis, treatment of myeloid or lymphoid
CC cell disorders and platelet disorders such as thrombocytopenia,
CC regeneration of bone, cartilage, tendon, ligament and/or nerve tissue
CC growth, tissue repair, healing of burns, incisions, ulcers, treatment of
CC osteoporosis, osteoarthritis, bone degenerative disorders and periodontal
CC disease. The sequences of the invention are also useful for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues, immune deficiencies and disorders
CC including severe combined immunodeficiency (SCID), bacterial or fungal
CC infections, autoimmune disorders e.g. multiple sclerosis and myasthenia
CC gravis, allergic conditions such as asthma, thrombolytic or thrombosis
CC and coagulation disorders. Sequences ABK94890-ABK94982 represent human
CC novel polynucleotides of the invention.
SQ Sequence 9783 BP; 2881 A; 1927 C; 2156 G; 2819 T; 0 other;
Query Match 80.0%; Score 16; DB 24; Length 9783;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGGAACAAGT 17
Db 6826 CTTAGGAGGAACAAGT 6841
|||||
RESULT 16
ABV22178 standard; cDNA; 9785 BP.
XX
AC ABV22178;
XX
DT 13-SEP-2002 (first entry)
XX
DE Human prostate expression marker cDNA 22169.
XX
XX Human prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
XX
OS Homo sapiens.
XX
PN WO200160860-A2.
XX
PD 23-AUG-2001.
XX
PF 20-FEB-2001; 2001WO-US05171.
XX
PR 17-FEB-2000; 2000US-183319P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-258281P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
PI Schlegel R, Endege WO, Monahan JE;
XX
XX WPI; 2001-662795/76.
DR
XX
XX Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer -
PS Claim 1; Page 3813-3814; 11750pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate

CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 9785 BP; 2870 A; 1936 C; 2160 G; 2819 T; 0 other;
Query Match 80.0%; Score 16; DB 23; Length 9785;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGAACAACT 17
DB 6835 CTTAGGAGAACAACT 6850
RESULT 17
ABV28017
ID ABV28017 standard; cDNA; 9785 BP.
XX
AC ABV28017;
XX
DT 16-SEP-2002 (first entry)
XX
DE Human prostate expression marker CDNA 28008.
XX
KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.
XX
OS Homo sapiens.
XX
PN W02C0160860-A2.
XX
PD 23-AUG-2001.
XX
PF 20-FEB-2001; 2001WO-US05171.
XX
PR 17-FEB-2000; 2000US-183119P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-273114P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-255281P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Endege WO, Monahan JE;
XX
DR WPI; 2001-662795/76.
XX
PT Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer. useful
PT for detecting presence of prostate cancer, stage of prostate cancer -
XX
XX
XX Claim 1; Page 5783-5785; 11750pp; English.
CC The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;

CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 9785 BP; 2870 A; 1936 C; 2160 G; 2819 T; 0 other;
Query Match 80.0%; Score 16; DB 23; Length 9785;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGAACAACT 17
DB 6835 CTTAGGAGAACAACT 6850
RESULT 18
ABN85750/C
ID ABN85750 standard; DNA; 180557 BP.
XX
AC ABN85750;
XX
DT 14-OCT-2002 (first entry)
XX
DE Human BAC clone RP11-334G22 SEQ ID NO 6.
XX
KW Human; Can 1; antiinfertility; gynaecological; infertility;
KW premature ovarian failure; menopause; Sertoli Cell only syndrome;
KW BAC clone RP11-334G22; GenBank reference AC007250; ds.
XX
OS Homo sapiens.
XX
PN US2002119929-A1.
XX
PD 29-AUG-2002.
XX
PF 02-NOV-2001; 2001US-0003806.
XX
PR 03-NOV-2000; 2000US-245872P.
XX
PA (BISH/) BISHOP C E.
PA (AGOU/) AGOUTINIK A I.
PA (ZHUQ/) ZHU Q.
XX
PI Bishop CE, Agoutinik AI, Zhu Q;
XX
DR WPI; 2002-618953/66.
XX
PT A nucleic acid molecule (I) encoding a Can 1 polypeptide used in
PT treating infertility -
XX
XX Disclosure; Page -: 45pp; English.
CC The invention relates to a nucleic acid molecule (I) encoding a Can 1
CC polypeptide. The Can 1 nucleic acid molecule is used to diagnose or treat
CC infertility or premature ovarian failure or Sertoli Cell only syndrome
CC in a mammal. The present sequence is that of a human Can 1 encoding
CC BAC clone RP11-334G22 of the invention.
CC Note: The present sequence is not given in the printed specification but
CC was obtained through the Genbank reference AC007250.
XX
SQ Sequence 180557 BP; 53238 A; 32016 C; 33894 G; 61409 T; 0 other;
Query Match 80.0%; Score 16; DB 24; Length 180557;
Best Local Similarity 100.0%; Pred. No. 7.1;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 AGGAGAACAACTGCC 20
DB 124080 AGGAGAACAACTGCC 124065
RESULT 19
AAH62689

XX WO200171042-A2.
 XX 27-SEP-2001.
 PD 23-MAR-2001; 2001WO-US09231.
 XX 23-MAR-2000; 2000US-191637P.
 PR 11-JUL-2000; 2000US-0614150.
 XX (PEKE) PE CORP NY.
 PA Venter JC, Adams M, Li PWD, Myers EW;
 PI WPI; 2001-656860/75.
 DR
 XX
 PT New isolated nucleic acid detection reagent for detecting 1000 or more
 PT genes from Drosophila and for elucidating cell signalling and cell-cell
 PT interactions -
 XX
 PS Claim 1; SEQ ID NO 40117; 21pp + Sequence Listing; English.
 XX
 CC The invention relates to an isolated nucleic acid detection reagent
 CC capable of detecting 1000 or more genes from Drosophila. The invention is
 CC useful in developmental biology and in elucidating cell signalling and
 CC cell-cell interactions in higher eukaryotes for the development of
 CC insecticides, therapeutics and pharmaceutical drugs. The invention
 CC discloses genomic DNA sequences (AB16176-AB130511), expressed DNA
 CC sequences (AB101840-AB16175) and the encoded proteins
 CC (ABB57737-ABB72072).
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 17255 BP; 5336 A; 3353 C; 3445 G; 5121 T; 0 other;
 Query Match 75.0%; Score 15; DB 23; Length 17255;
 Best Local Similarity 100.0%; Pred. No. 29;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 AGGAGGAACAGTCC 19
 Db 10781 AGGAGGAACAGTCC 10795
 RESULT 24
 ABQ76896
 ID ABQ76896 standard; DNA; 53226 BP.
 XX
 AC ABQ76896;
 XX
 DT 13-MAR-2003 (first entry)
 XX
 DE Human G-protein coupled receptor DNA SEQ ID 3.
 XX
 KW G-protein coupled receptor; secretin receptor subfamily; human; SNP;
 KW GPCR; protease; Parkinson's disease; gene; chromosome X;
 KM single nucleotide polymorphism; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key location/Qualifiers
 FT CDS 3000..50651
 FT
 FT /tag= a
 FT /product= "GPCR"
 FT /note "this coding sequence is interrupted by
 FT 13 introns"
 FT
 FT variation replace (1746,c)
 FT /tag= b
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (1755,g)
 FT /tag= c
 FT /note= "SNP, single nucleotide polymorphism"

FT variation replace (1961,g)
 FT /tag= d
 FT /note= "SNP, single nucleotide polymorphism"
 FT 3000..3088
 FT
 FT /tag= e
 FT /number= 1
 FT 3089..3874
 FT /tag= f
 FT /number= 1
 FT 3875..4038
 FT /tag= g
 FT /number= 2
 FT 4039..6037
 FT /tag= h
 FT /number= 2
 FT replace (5411,g)
 FT /tag= i
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (5760,a)
 FT /tag= j
 FT /note= "SNP, single nucleotide polymorphism"
 FT 6038..6170
 FT /tag= k
 FT /number= 3
 FT 6171..8059
 FT /tag= l
 FT /number= 3
 FT 8060..8178
 FT /tag= m
 FT /number= 4
 FT 8179..15910
 FT /tag= n
 FT /number= 4
 FT replace (11390,c)
 FT /tag= o
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (11390,t)
 FT /tag= p
 FT /note= "SNP, single nucleotide polymorphism"
 FT 15911..16127
 FT /tag= q
 FT /number= 5
 FT 16128..17484
 FT /tag= r
 FT /number= 5
 FT replace (16988,a)
 FT /tag= s
 FT /note= "SNP, single nucleotide polymorphism"
 FT 17485..17647
 FT /tag= t
 FT /number= 6
 FT 17648..32332
 FT /tag= u
 FT /number= 6
 FT replace (18361,g)
 FT /tag= v
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (19769,c)
 FT /tag= w
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (22910,t)
 FT /tag= x
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (22935,t)
 FT /tag= y
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (24206,g)
 FT /tag= z
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (24774,a)
 FT /tag= aa
 FT /note= "SNP, single nucleotide polymorphism"
 FT replace (24869,c)
 FT variation

FT		/*tag= ab	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (25766,a)	
FT		/*tag= ac	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (26697,t)	
FT		/*tag= ad	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (26697,c)	
FT		/*tag= ae	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (28359,c)	
FT		/*tag= af	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (28470,.28471,t)	
FT		/*tag= ag	
FT		/note= "a single nucleotide polymorphism (SNP) can result in a deletion at this position"	
FT	variation	replace (29781,g)	
FT		/*tag= ah	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (30182,a)	
FT		/*tag= ai	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (31772,t)	
FT		/*tag= aj	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	variation	replace (31936,g)	
FT		/*tag= ak	
FT		/note= "SNP, single nucleotide polymorphism"	
FT	exon	32333..32467	
FT		/*tag= al	
FT		/number= 7	
FT	intron	32468..36825	
FT		/*tag= am	
FT		/number= 7	
FT	exon	36826..36948	
FT		/*tag= an	
FT		/product= 8	
FT	intron	36949..38129	
FT		/*tag= ao	
FT		/number= 8	
FT	exon	38130..38175	
FT		/*tag= ap	
FT		/number= 9	
FT	intron	38176..39984	
FT		/*tag= aq	
FT		/number= 9	
FT	exon	39985..40088	
FT		/*tag= ar	
FT		/number= 10	
FT	intron	40089..42455	
FT		/*tag= as	
FT		/number= 10	
FT	exon	42456..42577	
FT		/*tag= at	
FT		/number= 11	
FT	intron	42578..44422	
FT		/*tag= au	
FT		/number= 11	
FT	variation	replace (42767,.42767,c)	
FT		/*tag= av	
FT		/note= "a single nucleotide polymorphism (SNP) can result in a deletion at this position"	
FT	exon	44423..44691	
FT		/*tag= aw	
FT		/number= 12	
FT	intron	44692..47818	
FT		/*tag= ax	
FT		/number= 12	
FT	exon	47819..47897	
FT		/*tag= ay	
FT		/number= 13	

FT	intron	47988..50266
FT		/*tag=
FT		az
FT		/number= 13
FT	variation	replace (48839,c)
FT		/*tag= ba
FT		/note= "SNP, single nucleotide polymorphism"
FT	exon	50267..50651
FT		/*tag= bd
FT		/number= 14
FT	variation	replace (52265,g)
FT		/*tag= bc
FT		/note= "SNP, single nucleotide polymorphism"
PN	US2002142951-A1.	
XX		
XX	03-OCT-2002.	
PD		
XX		
PF	28-MAR-2001; 2001US-0818264.	
XX		
XX	28-MAR-2001; 2001US-0818264.	
XX		
PA	(WEBS/) WEBSTER M.	
PA	(BEAS/) BEASLEY E M.	
PA	(KETC/) KETCHUM K A.	
PA	(DFRA/) DI FRANCESCO V.	
XX		
XX	Webster M., Beasley EM, Ketchum KA, Di Francesco V,	
PI		

Query Match 75.0%; Score 15; DB 25; Length 53226;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGGAGACAAG 16
|||
Db 35513 CTTAGGAGACAAG 35527

RESULT	25
AAQ76831	
ID	AAQ76831 standard; DNA; 125 BP.

DT	25-MAR-2003	(updated)
DT	23-SEP-1994	(first entry)

Human genome fragment.

KW Brain; placenta; bone marrow; genetic analysis; gene mapping; detection; homology; human; adrenal tissue; ds. KW

OS Homo sapiens.

PN W09401548-A2.

PD 20-JAN-1994.

PF 13-JUL-1993; 93WO-GB01467.

PR 13-JUL-1992; 92GB-0014857.

PA (MEDI -) MEDICAL RES COUNCIL.

PI Gross J, Hadfield KM, Howells D, Kelly M, Shaw D;

XX

XX

PT for genetic analysis and mapping

PS Claim 1; Page 228; 616pp; English.

XX Human nucleic acid fragments, isolated from brain, adrenal tissue,
CC the placenta or bone marrow comprise any of: (A) a sequence
CC selected from (AA076401-Q77613), (B) an allelic variation of a
CC sequence as described in (A), or (C) a sequence complementary
CC to (A) or (B).
CC Preferred sequences exhibit no more than 90% homology to a human
CC sequence known per se.
CC (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ Sequence 125 BP; 29 A; 31 C; 39 G; 25 T; 1 other;
Query Match 70.0%; Score 14; DB 15; Length 125;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 AGGAGGACCAAGTC 18
DB 106 AGGAGGACCAAGTC 119
RESULT 26
ABX30187
ID ABX30187 standard; cDNA; 273 BP.
XX
AC ABX30187;
XX
DT 11-FEB-2003 (first entry)
XX
DE Human GDP-mannose 4,6-dehydratase (GM4,6D) DNA #12244.
XX
KM Human; GDP-mannose 4,6-dehydratase; GM4,6D; gene; ss; inflammation;
KM cellular fucosylation; glycoconjugate fucosylation; transplant rejection;
KM arthritis; asthma; sepsis; reperfusion injury; stroke; infection;
KM complex carbohydrate; gene replacement therapy; immunosuppressive;
KM antiinflammatory; antiarthritic; antibacterial; cerebroprotective;
KM antisthmatic; vasotropic.
XX
OS Homo sapiens.
XX
PN US2002110548-A1.
XX
PD 15-AUG-2002.
XX
PF 11-JUN-2001; 2001US-0878574.
XX
PR 22-NOV-1996; 96US-0753233.
PR 03-DEC-1997; 97US-0984246.
PR 09-SEP-1998; 98US-0149674.
PR 14-JUN-1999; 99US-0333177.
XX
PA (GENY) GENETICS INST INC.
XX
PI Sullivan F, Kriz R, Kumar R;
XX
DR WPI; 2003-066673/06.
XX
XX New composition comprising GDP-mannose 4,6-dehydratase (GM4,6D)
PT peptide, for manufacturing complex carbohydrates, or as targets for
PT screening GM4,6D antagonists for treating e.g. arthritis, or transplant
PT rejection -
XX
PS Disclosure; SEQ ID NO 12246; 6pp; English.
XX
CC The invention relates to a composition comprising a human GDP-mannose
CC 4,6-dehydratase (GM4,6D) peptide. The peptide is useful for identifying
CC GM4,6D inhibitors. GM4,6D inhibitors are useful for reducing inflammation
CC in a mammalian subject and for treating or ameliorating diseases affected
CC by the level of cellular fucosylation or diseases affected by the
CC fucosylation of glycoconjugates. These diseases include arthritis,
CC transplant rejection, asthma, sepsis, reperfusion injury, stroke or
CC infection. The GM4,6D peptide or a polynucleotide encoding it is also
CC useful for manufacturing complex carbohydrates and as targets for

CC screening small molecule antagonists of the activity of the enzyme. The
CC polynucleotide is useful in developing an assay for defects in the
CC enzyme, as well as in gene replacement therapy. Sequences
CC ABX17943-ABX17944 and ABX17947-ABX33716 represent DNA molecules encoding
CC human GM4,6D peptides of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification but was obtained in electronic format directly from USPTO
CC at seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 273 BP; 81 A; 57 C; 58 G; 77 T; 0 other;
Query Match 70.0%; Score 14; DB 25; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CTTAGGAGGACCA 15
DB 46 CTTAGGAGGACCA 59
RESULT 27
AAK98399/C
ID AAK98399 standard; cDNA; 300 BP.
XX
XX AAK98399;
XX
AC AAK98399;
XX
DT 24-SEP-1999 (first entry)
XX
DE Human cancer cell derived cDNA #125.
XX
XX
KM Cancer; human; colon; breast; lung; transmembrane receptor; ATPase;
KM integral membrane protein; aspartyl protease; GATA family; wnt family;
KM transcription factor; G-protein alpha subunit; protein phosphatase;
KM phospholipase binding protein; diacylglycerol binding protein; trypsin;
KM protein kinase; tyrosine phosphatase; developmental signalling protein;
KM Wnt/PCP/Wnt domain; therapy; forensic; genetic mapping; diagnostic;
KM detection; treatment; cervical; melanoma; colorectal adenocarcinoma;
KM Wilms' tumour; retinoblastoma; sarcoma; myosarcoma; lung carcinoma;
KM leukemia; lymphoma; dysplasia; hyperplasia; endometrium; adrenal;
KM prostate; ss.
XX
XX Homo sapiens.
XX
OS
XX
PN WO9333982-A2.
XX
PD 08-JUL-1999.
XX
PF 22-DEC-1998; 98WO-US27610.
XX
PR 21-DEC-1998; 98US-0217471.
PR 23-DEC-1997; 97US-0068755.
PR 03-APR-1998; 98US-0080664.
PR 21-OCT-1998; 98US-0105234.
PR 27-OCT-1998; 98US-0105877.
XX
XX (CHIR) CHIRON CORP.
XX
PA (HYSE-) HYSEQ INC.
XX
XX Ckvenjakov R, Dickson M, Drmanac R, Drmanac S;
XX Becobedo J, Garcia A, Garcia V, Giese K, Innis MA;
XX Jones LW, Kassam A, Kennedy GC, Kita D, Labat I;
XX Lamson G, Leshkowitz D, Pot D, Randazzo F, Reinhard C;
XX Strache-Crain B, Sudduth-Klinger J, Williams LT;
XX
DR WPI; 1999-430243/36.
XX
XX New isolated human polynucleotides
XX
PS Claim 1; Page 348; 59pp; English.
XX
CC This invention describes novel isolated human polynucleotides obtained
CC by screening for differential expression in colon cancer, breast cancer
CC and lung cancer cell lines. The polynucleotides of the invention are

represented in AAX98275-X99118 and encode polypeptides of protein families selected from 4 transmembrane segments integral membrane proteins, 7 transmembrane receptors, ATPases associated with various cellular activities (AAA), eukaryotic aspartyl proteases, GATA family of transcription factors, G-protein alpha subunit, photolabile or diacylglycerol binding proteins, protein kinase, protein phosphatase 2C, protein tyrosine phosphatase, trypsin, wnt family of developmental signaling proteins and WW/rps5/WWP domain containing proteins. The encoded polypeptides also have a functional domain selected from Ank repeat, basic region plus leucine zipper transcription factors, bromodomain, EF-hand, SH3 domain, WD domain/G-beta repeats, zinc finger (CCH2 type), zinc finger (CCHC class), and zinc-binding metalloprotease domain. The polynucleotides encode polypeptides with similarity to known protein families and are predicted to have similar properties. The novel polynucleotides can be used to develop products for use as therapeutic agents and in forensics, genetic analysis, mapping and diagnostic applications. In particular, the product can be used for the detection and management of cancers. They can be used for treating e.g. cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumour, sarcomas, retinoblastoma, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas such as histiocytic lymphoma, anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia, hyperplasias, e.g. endometrial, adrenal, breast, prostate or thyroid hyperplasias or pseudoepitheliomatous hyperplasia of the skin.

Sequence 300 BP, 81 A, 35 C, 63 G, 121 T, 0 other;

Query Match 70.0%; Score 14; DB 20; Length 300;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CCTTAGAGGACA 14
|||||
230 CCTTAGAGGACA 217

RESULT 28
ABV06501
ID ABV06501 standard; cDNA, 344 BP.

AC ABV06501;
XX
DT 13-SEP-2002 (first entry)

DE Human prostate expression marker cDNA 6492.

KM Human prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.

OS Homo sapiens.

PN W0200160860-A2.

PD 23-AUG-2001.

PF 20-FEB-2001; 2001WO-US05171.

PR 17-FEB-2000; 2000US-183319P.

PR 16-MAR-2000; 2000US-189862P.

PR 25-MAY-2000; 2000US-207454P.

PR 09-JUN-2000; 2000US-211314P.

PR 18-JUL-2000; 2000US-219007P.

PR 13-DEC-2000; 2000US-255281P.

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PI Schlegel R, Endege WO, Nonahan JE;

XX WPI; 2001-662795/76.

PT Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer -

PS Claim 1; Page 1063; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (1) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the

CC specification or its complement. (1) is useful for:

CC (a) assessing whether a patient is afflicted with prostate cancer;

CC (b) monitoring the progression of prostate cancer in a patient;

CC (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;

CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;

CC (e) selecting a composition for inhibiting prostate cancer in a patient;

CC (f) assessing the prostate cell carcinogenic potential of a compound;

CC (g) determining whether prostate cancer has metastasized in a patient;

CC (h) assessing the aggressiveness or indolence of prostate cancer in a patient;

CC (1) is also useful as a pharmacodynamic or pharmacogenomic marker.

Sequence 344 BP, 113 A, 52 C, 82 G, 94 T, 3 other;

Query Match 70.0%; Score 14; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 5 AGAGGACCAAGTC 18
|||||
100 AGAGGACCAAGTC 113

RESULT 29
AAC03189
ID AAC03189 standard; cDNA, 357 BP.

AC AAC03189;

XX 06-OCT-2000 (first entry)

DE Human secreted protein 5' EST, SEQ ID NO: 3187.

KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;

KW gene therapy; chromosome mapping; ss.

OS Homo sapiens.

PN EP1033401-A2.

PD 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

PA (GEST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI; 2000-500381/45.

XX P-PSDB; AAG03183.

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for

PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for

PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

XX Claim 1; SEQ ID 3187; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from

CC mRNAs encoding secreted proteins. An ORF has been identified within the

CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs

CC derived from 30 different tissues. EST sequences usually correspond

CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
 CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
 CC well suited for isolating cDNA sequences derived from the 5' ends of
 CC mRNAs and even in those cases where longer cDNA sequences have been
 CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
 CC mRNAs with intact 5' ends and can therefore be used to obtain full length
 CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
 CC gene therapy and chromosome mapping procedures. They are used to obtain
 CC upstream regulatory sequences and to design expression and secretion
 CC vectors.

XX
 SQ Sequence 357 BP, 112 A, 74 C, 78 G, 92 T, 1 other;

Query Match 70.0%; Score 14; DB 21; Length 357;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 TAGGAGGACAACT 17
 Db 223 TAGGAGGACAACT 236

RESULT 30
 AAS38136/c
 ID AAS38136 standard; cDNA; 408 BP.

XX
 AC AAS38136;

XX
 DT 17-DEC-2001 (first entry)

XX
 DE Novel human diagnostic and therapeutic gene #1194.

XX
 KM Human; cancer; breast; lung; colon; prostate; cytostatic; diagnostic; ss.

XX
 OS Homo sapiens.

XX
 PN WO200166753-A2.

XX
 PD 13-SEP-2001.

XX
 PF 09-MAR-2001; 2001WO-US07787.

XX
 PR 09-MAR-2000; 2000US-0188609.

XX
 PA (CHIR) CHIRON CORP.

XX
 PA (HYSE-) HYSEO INC.

XX
 PI Williams LT, Escobedo J, Innis MA, Garcia PD, Sudduth-Klinger J;
 PI Reinhard C, Randazzo F, Kennedy GC, Pot D, Kassam A, Lamson G;
 PI Drmanac R, Crkvenjakov R, Dickson M, Drmanac S, Labat I;
 PI Leshkowitz D, Kita D, Garcia V, Jones WL, Stache-Crain B;

XX
 DR WPI; 2001-530177/58.

XX
 PT New polynucleotides and polypeptides, useful for diagnosis and
 XX treatment of breast, lung and colon cancer -

XX
 PS Claim 1; Page 896; 1193pp; English.

XX
 CC The invention relates to new polynucleotides and polypeptides, useful for
 CC diagnosis and treatment of breast, lung and colon cancer. The sequences
 CC can be used in detecting differentially expressed genes correlated with a
 CC cancerous state of a mammalian cell, comprising detecting at least one
 CC differentially expressed gene product in a test sample derived from a
 CC cell suspected of being cancerous. They can also be used to inhibit
 CC tumour growth by modulating expression of a gene product. AAS36943-
 CC AAS3338 represent novel human diagnostic and therapeutic coding
 CC sequences of the invention.

XX
 SQ Sequence 408 BP, 57 A, 110 C, 140 G, 101 T, 0 other;

Query Match 70.0%; Score 14; DB 22; Length 408;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 7 GAGGACAACTCCC 20
 Db 91 GAGGACAACTCCC 78

RESULT 31
 AAX55494/c
 ID AAX55494 standard; DNA; 409 BP.

XX
 AC AAX55494;

XX
 DT 27-JUL-1999 (first entry)

XX
 DE Rice Crm1 homologue DNA.

XX
 KM Pad1; Crm1; Jab1; AP-1 transcription factor activity; regulator; plant;
 XX maize; soybean; wheat; rice; yeast; human; isolation; transgenic; ss.

XX
 OS Oryza sativa.

XX
 PN WO9924574-A2.

XX
 PD 20-MAY-1999.

XX
 PF 04-NOV-1998; 98WO-US23487.

XX
 PR 07-NOV-1997; 97US-0064914.

XX
 PA (DUPO) DU PONT DE NEMOURS & CO E. I.

XX
 PI Allen SM, Anderson ST, Hitz WD, Kinney AJ, Miao G;
 XX Morgante M, Odell JT, Sakai H;

XX
 DR WPI; 1999-327405/27.

XX
 DR P-FSDB; AAY08447.

XX
 PT Plant homologues of yeast Pad1, Crm1 and human Jab1 and related
 XX polynucleotides

XX
 PS Claim 7; Page 42; 57pp; English.

XX
 CC This invention describes novel plant Pad1, Crm1 or Jab1 proteins which
 CC are capable of AP-1 transcription factor regulation. The proteins are
 CC thought to interact with transcription factors altering gene expression.
 CC The nucleic acid sequences of the invention may be used to isolate cDNAs
 CC and genes encoding homologous proteins from the same or other plant
 CC species. Synthetic peptides of the proteins may be synthesized to
 CC generate antibodies that are useful for screening expression libraries.
 CC Transgenic plants may be produced using the nucleic acid sequences to
 CC alter the levels of Pad1, Crm1 and Jab1 present in the plants. Altering
 CC the levels of these proteins would alter the level of AP-1 transcription
 CC factor activity in the plants.

XX
 SQ Sequence 409 BP, 119 A, 90 C, 82 G, 118 T, 0 other;

Query Match 70.0%; Score 14; DB 20; Length 409;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGGACAA 15
 Db 296 CTTAGGAGGACAA 283

RESULT 32
 AAS26323
 ID AAS26323 standard; cDNA; 442 BP.

XX
 AC AAS26323;

XX
 DT 07-NOV-2001 (first entry)

XX Human cDNA encoding a novel secreted protein, Seq ID 502.
DE
XX
KW Human; immunosuppressive; antiarthritic; ss; antirheumatic;
KW cytoskeletal; cardiant; vasotropic; cerebroprotective; nocitropic;
KW neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
KW vulnary; secreted protein; rheumatoid arthritis;
KW hyperproliferative disorder; cardiovascular disorder; cardiac arrest;
KW cerebrovascular disorder; cerebral ischemia; angiogenesis;
KW nervous system disorder; Alzheimer's disease; infection; ocular disorder;
KW corneal infection; wound healing; epithelial cell proliferation;
KW skin ageing; food additive; preservative; antiproliferative.
XX
OS Homo sapiens.
XX
PN W0200155322-A2.
XX
PD
XX
PF 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01341.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226686.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234897.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 02-OCT-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.

PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0251989.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI, 2001-488783/53.
XX
XX P-PSDB; AAU16336.
XX
XX New nucleic acid molecules encoding 461 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
PT used as food additives or preservatives -
XX
XX
XX Claim 1; SEQ ID No 502; 980bp; English.
XX
XX The invention relates to isolated nucleic acid molecules and their
CC encoded secreted proteins. The nucleic acids and proteins are used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They
CC are also used in diagnosing a pathological condition or susceptibility
CC to a pathological condition. Antibodies to the proteins can also
CC be used in alleviating symptoms associated with the disorders and in
CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked
CC immunosorbent assays (ELISA). Disorders which are diagnosed or treated
CC include autoimmune diseases e.g. rheumatoid arthritis,
CC hyperproliferative disorders e.g. neoplasms of the breast or liver,
CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders
CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi
CC and ocular disorders e.g. corneal infection, and many other
CC disorders listed in the specification. The polypeptides can also
CC be used to aid wound healing and epithelial cell proliferation, to
CC prevent skin aging due to sunburn, to maintain organs before
CC transplantation, for supporting cell culture of primary tissues, to
CC regenerate tissues and in chemotaxis. The polypeptides can also be used
CC as a food additive or preservative to increase or decrease storage
CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,
CC minerals, cofactors and other nutritional components. The present
CC sequence encodes a novel secreted protein of the invention.

Query Match 70.0%; Score 14; DB 22; Length 442;
Best Local Similarity 100.0%; Pred. NO. 1.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TAGGAGGACAACT 17
Db 141 TAGGAGGACAACT 154

RESULT 33
ABX73664
ID ABX73664 standard; DNA; 442 BP.
XX
XX AC ABX73664;
XX
XX DT 18-MAR-2003 (first entry)
XX
XX DE Human novel polynucleotide #492.
XX
XX KW Human; gene; ds; neural disorder; immune system disorder; renal disorder;
KW muscular disorder; respiratory disease; reproductive disorder;
KW gastrointestinal disorder; pulmonary disorder; cardiovascular disorder;
KW hyperproliferative disorder; inflammatory disease; allergic reaction;

KW blood related disorder; cancer; immunosuppressive; antiinflammatory;
KW cardiovascular; nephrotoxic; cytostatic; antiallergic; chromolytic;
KW haemostatic; antiarteriosclerotic.
XX
XX OS Homo sapiens.
XX
XX PN US2002132753-A1.
XX
XX PD 19-SEP-2002.
XX
XX PF 17-JAN-2001; 2001US-0764864.
XX
XX 31-JAN-2000; 2000US-179065P.
XX 04-FEB-2000; 2000US-180628P.
XX 28-JUN-2000; 2000US-214886P.
XX 07-JUL-2000; 2000US-216647P.
XX 07-JUL-2000; 2000US-216880P.
XX 11-JUL-2000; 2000US-217487P.
XX 11-JUL-2000; 2000US-217496P.
XX 14-JUL-2000; 2000US-218290P.
XX 26-JUL-2000; 2000US-220963P.
XX 26-JUL-2000; 2000US-220964P.
XX 14-AUG-2000; 2000US-224518P.
XX 14-AUG-2000; 2000US-224519P.
XX 14-AUG-2000; 2000US-225267P.
XX 14-AUG-2000; 2000US-225268P.
XX 14-AUG-2000; 2000US-225270P.
XX 14-AUG-2000; 2000US-225447P.
XX 14-AUG-2000; 2000US-225757P.
XX 14-AUG-2000; 2000US-225758P.
XX 22-AUG-2000; 2000US-226868P.
XX 30-AUG-2000; 2000US-228924P.
XX 01-SEP-2000; 2000US-229287P.
XX 01-SEP-2000; 2000US-229343P.
XX 01-SEP-2000; 2000US-229344P.
XX 01-SEP-2000; 2000US-229345P.
XX 05-SEP-2000; 2000US-229509P.
XX 05-SEP-2000; 2000US-229513P.
XX 08-SEP-2000; 2000US-231413P.
XX 21-SEP-2000; 2000US-234223P.
XX 21-SEP-2000; 2000US-234274P.
XX 25-SEP-2000; 2000US-234997P.
XX 27-SEP-2000; 2000US-235834P.
XX 29-SEP-2000; 2000US-236327P.
XX 29-SEP-2000; 2000US-236367P.
XX 29-SEP-2000; 2000US-236368P.
XX 29-SEP-2000; 2000US-236369P.
XX 29-SEP-2000; 2000US-236370P.
XX 02-OCT-2000; 2000US-236802P.
XX 02-OCT-2000; 2000US-237037P.
XX 02-OCT-2000; 2000US-237038P.
XX 02-OCT-2000; 2000US-237039P.
XX 13-OCT-2000; 2000US-237040P.
XX 13-OCT-2000; 2000US-239935P.
XX 20-OCT-2000; 2000US-240960P.
XX 20-OCT-2000; 2000US-241785P.
XX 20-OCT-2000; 2000US-241809P.
XX 01-NOV-2000; 2000US-244617P.
XX 17-NOV-2000; 2000US-249299P.
XX 08-DEC-2000; 2000US-251856P.
XX 08-DEC-2000; 2000US-251868P.
XX 08-DEC-2000; 2000US-251869P.
XX 08-DEC-2000; 2000US-251869P.
XX
XX (ROSE/) ROSEN C A.
XX (RUBEN/) RUBEN S M.
XX (BARASH/) BARASH S C.
XX
XX PI Rosen CA, Ruben SM, Barash SC;
XX
XX WPI, 2003-147444/14.
XX
XX P-PSDB; ABU55404.
XX
XX New polypeptides and nucleic acids, useful in gene therapy for

PT treating, inhibiting or preventing e.g. neural, immune system,
PT muscular, respiratory, reproductive, gastrointestinal, pulmonary,
PT cardiovascular or renal disorders -
XX
PS Claim 1; SEQ ID NO 502; 402bp; English.
XX
CC The invention relates to human novel polypeptides and their associated
CC polynucleotides. The polypeptides and polynucleotides are useful in gene
CC therapy for treating, inhibiting or preventing neural disorders, immune
CC system disorders (e.g. systemic lupus erythematosus, rheumatoid
CC arthritis and multiple sclerosis), muscular disorders, respiratory
CC diseases (e.g. nasal vestibulitis, nasal polyps and sinusitis),
CC reproductive disorders, gastrointestinal disorders, pulmonary disorders,
CC cardiovascular disorders (e.g. congenital heart defects, Ebstein's
CC anomaly and hypoplastic left heart syndrome), renal disorders (e.g. acute
CC kidney failure and end-stage renal disease), hyperproliferative disorders
CC (e.g. Hodgkin's disease and leukaemia), inflammatory diseases (e.g.
CC septic shock, bursitis and appendicitis), allergic reactions and
CC conditions (e.g. asthma), blood related disorders (e.g. thrombosis,
CC atherosclerosis and myocardial infarction) and cancerous diseases.
CC Sequences ABX73173-ABX74167 represent human novel polynucleotides of the
CC invention.
XX
SQ Sequence 442 BP; 192 A; 70 C; 83 G; 94 T; 3 other;
XX
Query Match 70.0%; Score 14; DB 25; Length 442;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 4 TAGAGGAAACAAGT 17
DB 141 TAGAGGAAACAAGT 154
XX
RESULT 34
ABV36454
ID ABV36454 standard; cDNA; 467 BP.
XX
AC ABV36454;
XX
DT 16-SEP-2002 (first entry)
XX
DE Human prostate expression marker cDNA 36445.
XX
KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.
XX
OS Homo sapiens.
XX
PN MO200160860-A2.
XX
PD 23-AUG-2001.
XX
PF 20-FEB-2001; 2001WO-US05171.
XX
PR 17-FEB-2000; 2000US-183119P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-255281P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Endege WO, Monahan JE;
XX
DR WPI; 2001-662795/76.
XX
PT Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer -
XX
PS Claim 1; Page 7534; 11750bp; English.

XX
CC The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 467 BP; 148 A; 84 C; 117 G; 118 T; 0 other;
XX
Query Match 70.0%; Score 14; DB 23; Length 467;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 5 AGGAGGAACAAGTC 18
DB 181 AGGAGGAACAAGTC 194
XX
RESULT 35
ABA43976/C
ID ABA43976 standard; DNA; 477 BP.
XX
AC ABA43976;
XX
DT 01-FEB-2002 (first entry)
XX
DE Human breast cell single exon nucleic acid probe #2671.
XX
KW Human; microarray; single exon probe; gene expression; breast;
KW disease; cancer; ss.
XX
OS Homo sapiens.
XX
PN MO200157271-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00662.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-496933/54.
XX
PT New spatially-addressable set of single exon nucleic acid probes,
PT useful for measuring gene expression in sample derived from human
PT breast, comprises number of single exon nucleic acid probes -
XX
PS Claim 1; SEQ ID NO 2671; 327bp + sequence listing; English.
XX
CC The invention relates to a spatially-addressable set of single exon
CC nucleic acid probes for measuring gene expression in a sample derived
CC from human breast and BT 474 cells. The method involves contacting
CC the probes with a collection of detectably labelled nucleic acids

CC derived from mRNA of human breast, and then measuring the label
 CC bound to each probe of the microarray. The probes are useful for
 CC verifying the expression of regions of genomic DNA predicted to
 CC encode proteins. They are useful for gene discovery, and for
 CC determining predisposition and/or prognosing breast disease. Gene
 CC expression analysis is useful for assessing the toxicity of chemical
 CC agents on cells. The microarray of this invention presents a far greater
 CC diversity of probes for measuring gene expression, with far less bias
 CC than expressed sequence tag microarrays. The method is suitable for
 CC rapid production of functional information from genomic sequence. The
 CC present sequence is a single exon nucleic acid probe of the invention.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX

XX Sequence 477 BP; 112 A; 93 C; 127 G; 145 T; 0 other;

Query Match 70.0%; Score 14; DB 22; Length 477;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GAGGACACATCCC 20
 |||||

Db 314 GAGGACACATCCC 301

Search completed: August 14, 2003, 21:41:21
 Job time : 130 secs

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OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 21:41:37 ; Search time 1126.8 Seconds
(without alignments)
388.250 Million cell updates/sec

Title: US-10-074-620-1

Perfect score: 18
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Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 22781392 seqs, 12152238056 residues

Word size : 0

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 120 summaries

Database :

EST:
1: em_estba:*
2: em_esthum:*
3: em_estin:*
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6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estcom:*
17: em_gse_hum:*
18: em_gse_inv:*
19: em_gse_pin:*
20: em_gse_vrt:*
21: em_gse_fun:*
22: em_gse_mam:*
23: em_gse_mus:*
24: em_gse_pro:*
25: em_gse_rod:*
26: em_gse_phg:*
27: em_gse_vrt1:*
28: gb_gse1:*
29: gb_gse2:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	17	94.4	927	10	BF536318
2	17	94.4	1080	29	CNS022AD
3	16	88.9	124	12	B1014294
4	16	88.9	170	9	AA294899

C 5	16	88.9	183	10	BF170207	BF170207 PCT0425 M
C 6	16	88.9	199	9	AM405433	AM405433 UI-HF-BLO
C 7	16	88.9	221	10	BF354113	BF354113 PM4-HT072
C 8	16	88.9	273	10	BE669911	BE669911 601679494
C 9	16	88.9	295	9	AA339056	AA339056 EST44112
C 10	16	88.9	300	9	AU099544	AU099544 AU099544
C 11	16	88.9	307	14	BF516504	BF516504 UI-H-BW1
C 12	16	88.9	317	14	CB267362	CB267362 1006268 H
C 13	16	88.9	319	13	BQ369040	BQ369040 PM3-GN051
C 14	16	88.9	319	13	BQ369218	BQ369218 PM3-GN051
C 15	16	88.9	335	10	BF850266	BF850266 CM3-EN007
C 16	16	88.9	337	14	CB130696	CB130696 K-EST0180
C 17	16	88.9	394	14	H69706	H69706 Y-93a08 .s1
C 18	16	88.9	395	12	BW789452	BW789452 K-EST0069
C 19	16	88.9	404	10	BF668175	BF668175 602122957
C 20	16	88.9	413	14	CB270357	CB270357 1009264 H
C 21	16	88.9	428	9	AA135078	AA135078 Z026406 .r
C 22	16	88.9	430	9	AW732816	AW732816 DB14N10 .y
C 23	16	88.9	431	10	BF850584	BF850584 PM1-EN006
C 24	16	88.9	431	14	CB270361	CB270361 1009268 H
C 25	16	88.9	433	14	CB145604	CB145604 K-EST0200
C 26	16	88.9	434	14	CB129626	CB129626 K-EST0179
C 27	16	88.9	436	14	CB142213	CB142213 K-EST0195
C 28	16	88.9	438	10	BF858511	BF858511 RCL1-FTO19
C 29	16	88.9	447	10	BG104409	BG104409 602311027
C 30	16	88.9	449	10	BF130453	BF130453 601818761
C 31	16	88.9	452	10	BE909128	BE909128 601501730
C 32	16	88.9	452	13	BX475327	BX475327 DKFZP686I
C 33	16	88.9	453	9	AA96839	AA96839 ae33B02 .r
C 34	16	88.9	454	12	BM171994	BM171994 imaagec .3
C 35	16	88.9	455	10	BF035036	BF035036 601456130
C 36	16	88.9	459	10	BF857906	BF857906 RCL1-FTO19
C 37	16	88.9	466	14	CB128372	CB128372 K-EST0177
C 38	16	88.9	473	10	BF669564	BF669564 602120279
C 39	16	88.9	473	13	BX095645	BX095645 BX095645
C 40	16	88.9	481	9	AM250575	AM250575 2821885 .5
C 41	16	88.9	484	9	AM246279	AM246279 2821886 .5
C 42	16	88.9	484	10	BE539568	BE539568 601060282
C 43	16	88.9	487	14	CB140784	CB140784 K-EST0194
C 44	16	88.9	490	10	BF922602	BF922602 QV4-NT025
C 45	16	88.9	490	13	BX471656	BX471656 DKFZP686L
C 46	16	88.9	494	10	BF857889	BF857889 RCL1-FTO19
C 47	16	88.9	501	12	BM795352	BM795352 K-EST0077
C 48	16	88.9	501	13	BX280514	BX280514 BX280514
C 49	16	88.9	509	10	BF971748	BF971748 602240020
C 50	16	88.9	511	10	BF665487	BF665487 602123870
C 51	16	88.9	512	10	BF699171	BF699171 602126810
C 52	16	88.9	512	10	BE958443	BE958443 601644752
C 53	16	88.9	520	9	AM328258	AM328258 d801C08 .x
C 54	16	88.9	525	10	BE390761	BE390761 601287253
C 55	16	88.9	533	10	BE799191	BE799191 601592752
C 56	16	88.9	540	9	AA307552	AA307552 EST178632
C 57	16	88.9	542	14	CB144397	CB144397 K-EST0198
C 58	16	88.9	542	14	CB269294	CB269294 1008201 H
C 59	16	88.9	549	10	BG495444	BG495444 602339755
C 60	16	88.9	550	14	CB128792	CB128792 K-EST0178
C 61	16	88.9	551	13	BX475673	BX475673 DKFZP686H
C 62	16	88.9	551	14	CB266268	CB266268 1005173 H
C 63	16	88.9	557	10	BE389991	BE389991 601285456
C 64	16	88.9	561	10	BE266170	BE266170 601191319
C 65	16	88.9	570	10	BG687435	BG687435 602639402
C 66	16	88.9	572	9	AA203223	AA203223 x556602 .r
C 67	16	88.9	581	10	BG528181	BG528181 602557578
C 68	16	88.9	581	12	B1915162	B1915162 603177375
C 69	16	88.9	584	9	BE279400	BE279400 601157972
C 70	16	88.9	586	9	AM675194	AM675194 DB41a06 .y
C 71	16	88.9	588	10	BF701069	BF701069 602128125
C 72	16	88.9	592	12	BM048988	BM048988 603621859
C 73	16	88.9	596	10	BE733288	BE733288 6011569464
C 74	16	88.9	602	10	BE298939	BE298939 601119950
C 75	16	88.9	602	10	BE266714	BE266714 601190278
C 76	16	88.9	606	10	BG529561	BG529561 602557970
C 77	16	88.9	608	9	AU123424	AU123424 AU123424

[illegible]

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High quality sequence stop: 686.	
Location/Qualifiers	
1. .927	/organism="Mus musculus"
	/mol_type="mRNA"
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	/db_xref="taxon:10090"
	/clone="IMAGE:4191040"
	/lab_host="DH10B (T1 phage-resistant)"
	/note="Organ: salivary gland; Vector: pCMV-Sport6; Site: 1; Not1; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.3 kb. Constructed by life Technologies. Note: this is a NCI CGAP Library."
	Technologies. Note: this is a NCI CGAP Library."
	2 others
	211 a 224 c 266 g 214 t
	94.4% Score 17; DB 10; Length 927;
	Best Local Similarity 100.0%; Pred. No. 22;
	Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
	2 GCTGCTGTACCTGTTA 18
	618 GCTGCTGTACCTGTTA 834
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CNS02AHD	1080 bp DNA linear GSS 01-SEP-2000
LOCUS	Tetradon nigroviridis genome survey sequence T7 end of clone
DEFINITION	251p01 of library G from Tetradon nigroviridis, genomic survey
sequence.	
AL188554	
AL188554.1	GI:7826658
GSS: genome survey sequence.	
Tetradon nigroviridis	
Tetradon nigroviridis	
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;	
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;	
Tetraodontidae; Tetraodontidae; Tetradon.	
REFERENCE	
AUTHORS	1
Reest Crollius,H., Jallion,O., Dasilva,C., Bouneau,L., Fisher,C.,	
Bernot,A., Fizames,C., Wincker,P., Brothier,P., Quetier,F.,	
Saurin,W. and Weissbach,J.	
Estimate of human gene number provided by genome-wide analysis	
using Tetradon nigroviridis DNA sequence	
Nat. Genet. 25 (2), 235-238 (2000)	
2	
Reest Crollius,H., Jallion,O., Dasilva,C., Bouneau,L., Fisher,C.,	
Bernot,A., Fizames,C., Wincker,P., Brothier,P., Quetier,F.,	
Saurin,W. and Weissbach,J.	
Characterization and repeat analysis of the compact genome of the	
Freshwater pufferfish Tetradon nigroviridis	
Genome Res. 10 (7), 939-949 (2000)	
20359837	
10899143	
3 (bases 1 to 1080)	
Genoscope.	
Direct Submission	
Submitted (12-APR-2000) Genoscope - Centre National de Sequencage :	
BP 191 91006 Evry cedex - FRANCE (E-mail : seque@genoscope.cns.fr	
- Web : www.genoscope.cns.fr)	
This sequence is a single read and was generated as part of a large	
scale clone-and sequencing project of the Tetradon nigroviridis	
genome. For more information, please take a look at	
http://www.genoscope.cns.fr/tetradon.	
Location/Qualifiers	
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ORIGIN

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Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GCTGTGTCACCTGTTA 18
|||||
Db 324 GCTGTGTCACCTGTTA 340

RESULT 3
LOCUS BI014294/c 124 bp mRNA linear EST 13-JUN-2001
DEFINITION MR4-ET0142-310101-001-h11 ET0142 Homo sapiens cDNA, mRNA sequence.
ACCESSION BI014294
VERSION BI014294.1 GI:14418365
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 124)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Brites,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,
M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.U.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE 20020663
PUBMED 10737800
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL.
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=MR4&ct=MR4-ET0142-
310101-001-h11&ct3=2001-01-31&ct4=1)
Seq primer: puc 18 forward
High quality sequence start: 16
High quality sequence stop: 124.
Location/Qualifiers

FEATURES
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Site_2: Sma1; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

BASE COUNT 26 a 51 c 19 g 28 t
ORIGIN

Query Match 88.9%; Score 16; DB 12; Length 124;

Best Local Similarity 100.0%; Pred. No. 47;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGTGTCACCTGT 16
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RESULT 4
LOCUS AA294899/c 170 bp mRNA linear EST 18-APR-1997
DEFINITION EST100142 Pancreas tumor I Homo sapiens cDNA 5' end, mRNA sequence.
ACCESSION AA294899
VERSION AA294899.1 GI:1947334
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 170)
Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Feldner,R.A., Bult,
C.J., Lee,N.H., Kirkness,E.F., Weinstock,K.G., Gocayne,J.D., White,
O., Sutton,G., Blake,J.A., Brandon,R.C., Man-Wei,C., Clayton,R.A.,
Cline,T.R., Cotton,M.D., Earle-Hughes,J., Fane,L.D., Fitzgerald,
L.M., Fitzhugh,W.M., Fritchman,J.L., Geoghagen,N.S., Glodek,A.,
Gnehm,C.L., Hanna,M.C., Heblom,E., Hinkle,P.S., Jr., Kelley,J.M.,
Kelley,J.C., Liu,L.-I., Marmaro,S.M., Merrick,J.M.,
Moreno-Palmarques,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M.,
Phillips,C.A., Ryder,S.E., Scott,U.L., Sauder,D.M., Shirley,R.,
Small,K.V., Spriggs,T.A., Utterback,T.R., Weidman,J.F., Li,Y.,
Bednarek,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J.,
Dimke,D., Feng,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,W.W.,
Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L.,
Kunesh,C., Hungjun,J., Li,H., Meisner,P.S., Olsen,H., Raymond,L.,
Wei,Y.F., Wang,J., Xu,C., Yu,G.L., Ruben,S.M., Dillon,P.J., Fannon,
M.R., Rosen,C.A., Haseltine,W.A., Fields,C., Fraser,C.M. and
Venter,J.C.

TITLE Initial assessment of human gene diversity and expression patterns
based upon 83 million nucleotides of cDNA sequence
JOURNAL Nature 377 (6547 Suppl), 3-174 (1995)
MEDLINE 96026280
PUBMED 7566098
COMMENT Other ESTs: THG172745
Contact: Kerlavage, AR
Bioinformatics
The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
Fax: 3018699423
Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (http://www.tigr.org/ldb/hgi/hgi.html)
Seq primer: M13 Reverse.

FEATURES
source 1..170
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="ATCC (inhost):190475"
/db_xref="taxon:9606"
/dev_stage="adult"
/clone_1lb="Pancreas tumor I"
/note="Organ: pancreas; Vector: pBluescript SK-; Site_1:
EcoRI, Site_2: XhoI"

BASE COUNT 39 a 48 c 51 g 28 t 4 others
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Query Match 88.9%; Score 16; DB 9; Length 170;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGTGTCACCTGT 16
|||||

Db 135 GGCTGGTGTCACTGT 120

RESULT 5	BF170207/c	183 bp	mRNA	linear	EST 23-MAR-2001
LOCUS	BF170207/c				
DEFINITION	BF170207 PCRC0425 Myeloma (PCL) cDNA library				
ACCESSION	BF170207				
VERSION	BF170207.1				
KEYWORDS	GI:13436309				
SOURCE	EST.				
ORGANISM	Homo sapiens (human)				
	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia, Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	1 (bases 1 to 183) Claudio,J.O., Maish-Khan,E., Tang,H., Goncalves,J., Voralia,M., Li Z.H., Nadeem,V., Cukerman,E., Francisco-Pabalan,O., Hiew,C.C., Woodgett,J.R. and Stewart,A.K.				
TITLE	A molecular compendium of genes expressed in multiple myeloma				
JOURNML	Blood 100 (6), 2175-2186 (2002)				
MEDLINE	22188429				
PUBMED	12200383				
COMMENT	Contact: A. Keith Stewart, M.D.				

BASE COUNT	41 a	49 c	56 g	37 t
ORIGIN				

	Query Match	88.9%	Score 16;	DB 10;	Length 183;
	Best Local Similarity	100.0%	Pred. No. 52;		
	Matches 16;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0.
QY	1 GGCTGGTGTCACTGTT	16			
b	143 GGGCTGGTGTCACTGTT	128			

RESULT 6	
AM405433/c	
LOCUS	199 bp, mRNA linear
DEFINITION	UT-HF-BL0-adc-h-06-0-UT.r1 NIH MCC_37 Homo sapiens cDNA clone
	IMAGE:3061115 5', mRNA sequence.
	IMAGE:3061115

BASE COUNT ORIGIN	60 a	57 c	53 g	29 t
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Query Match	88.9%	Score 16	DB 9	Length 199
Best Local Similarity	100.0%	Pred. No. 54		
Matches 16	Conservative 0	Mismatches 0	Indels 0	Gaps 0
1	GGCTGTGTTCACCTGT 16			
Db	70 GGCTGTGTTCACCTGT 55			
RESULT 7	BF354113/c	221 bp	mRNA	linear
LOCUS	BF354113			EST 22-NOV-2000
DEFINITION	PM4-HT0726-270500-002-c07 HT0726 Homo sapiens cDNA, mRNA sequence.			
ACCESSION	BF354113			
VERSION	BF354113.1			
KEYWORDS	EST.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
REFERENCE	Chakraborty, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 221)			
AUTHORS	Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M. R., Nagai, M. A., da Silva, W. Jr., Zago, M. A., Bordin, S., Costa, F. F., Goldman, G. H., Carvalho, A. F., Matsukuma, A., Bala, G. S., Simpson, D. H., Brunstein, A., deOliveira, P. S., Bucher, P., Jongeneel, C. V., O'Hare			

TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT

'M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
10737800
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?l=PM4&c2=PM4-HT0726-270500-002-c07&c3=2000-05-27&c4=1)
Seq primer: puc 18 forward
High quality sequence start: 28
High quality sequence stop: 219.
Location/Qualifiers

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="HT0726"
/note="Organ: head_neck; Vector: puc18; site_1: SmaI; site_2: SmaI; A mini-library was made by cloning products derived from ORESSES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
BASE COUNT
39 a 94 c 31 g 57 t
ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 221;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
|||||
99 GGCTGGTGCACCTGT 84

RESULT 8
BE969911/c 273 bp mRNA linear EST 04-OCT-2000
LOCUS 601679494F1 NIH_MGC_78 Homo sapiens cDNA IMAGE:3949966 5',
DEFINITION mRNA sequence.
ACCESSION BE969911
VERSION BE969911.1 GI:10582844
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 273)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-r@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov

Plate: L1C815 row: k column: 23
High quality sequence stop: 271.
Location/Qualifiers

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source
1..273
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3949966"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_78"
/note="Organ: pancreas; Vector: pDNR-LIB (Clontech); Site_1: SfiI (ggcgctcgcc); Site_2: SfiI (ggccatcgcc); Site_3: SfiI (ggcgctcgcc); Site_4: SfiI (ggcgctcgcc); Site_5: SfiI (ggcgctcgcc); Site_6: SfiI (ggcgctcgcc); Site_7: SfiI (ggcgctcgcc); Site_8: SfiI (ggcgctcgcc); Site_9: SfiI (ggcgctcgcc); Site_10: SfiI (ggcgctcgcc); Site_11: SfiI (ggcgctcgcc); Site_12: SfiI (ggcgctcgcc); Site_13: SfiI (ggcgctcgcc); Site_14: SfiI (ggcgctcgcc); Site_15: SfiI (ggcgctcgcc); Site_16: SfiI (ggcgctcgcc); Site_17: SfiI (ggcgctcgcc); Site_18: SfiI (ggcgctcgcc); Site_19: SfiI (ggcgctcgcc); Site_20: SfiI (ggcgctcgcc); Site_21: SfiI (ggcgctcgcc); Site_22: SfiI (ggcgctcgcc); Site_23: SfiI (ggcgctcgcc); Site_24: SfiI (ggcgctcgcc); Site_25: SfiI (ggcgctcgcc); Site_26: SfiI (ggcgctcgcc); Site_27: SfiI (ggcgctcgcc); Site_28: SfiI (ggcgctcgcc); Site_29: SfiI (ggcgctcgcc); Site_30: SfiI (ggcgctcgcc); Site_31: SfiI (ggcgctcgcc); Site_32: SfiI (ggcgctcgcc); Site_33: SfiI (ggcgctcgcc); Site_34: SfiI (ggcgctcgcc); Site_35: SfiI (ggcgctcgcc); 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Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (<http://www.tigr.org/cdb/hgi/hgi.html>)
Seq primer: M13 Reverse.

FEATURES

source

Location/Qualifiers

1.295

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="ATCC (inhost):140673"

/db_xref="taxon:9606"

/sex="female"

/dev_stage="Fetus, 24 wks"

/clone_lib="Petal brain 1"

/note="Organ: brain; Vector: pBluescript SK-; Site_1:

ECORI; Site_2: XhoI"

77 a 74 c 89 g 53 t 2 others

BASE COUNT

ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 295;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 GGCTGGTGTACCTGT 16

DB

161 GGCTGGTGTACCTGT 146

RESULT 10

AU099544/c

LOCUS

DEFINITION

AU099544 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone

HS108640 similar to Human translation initiation factor eIF3 p44

subunit mRNA, mRNA sequence.

AU099544

AU099544.1 GI:13550673

EST.

SOURCE

ORGANISM

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 300)

Suzuki, Y., Tsunoda, T., Taira, H., Mizushima-Sugano, J., Sese, J., Hata

H., Ota, T., Isogai, T., Tanaka, Y., Nakamura, Y., Morishita, S., Okubo

K., Suyama, A. and Sugano, S.

In silico mapping of the 5'-ends of human mRNAs using full-length

enriched and 5'-end enriched cDNA libraries constructed by

oligo-capping method

Unpublished

Contact: Yutaka Suzuki

Department of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan

Email: yusuzuki@ms.u-tokyo.ac.jp

Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano

S. Construction and characterization of a full length-enriched and

a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

Location/Qualifiers

1.300

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="HS108640"

/clone_lib="Sugano Homo sapiens CDNA library"

74 a 77 c 95 g 54 t

BASE COUNT

ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 300;

Best Local Similarity 100.0%; Pred. No. 60;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTACCTGT 16

|||||

DB 186 GGCTGGTGTACCTGT 171

RESULT 11

BF516504

LOCUS

DEFINITION

BF516504 301 bp mRNA linear EST 07-DEC-2000

UI-H-BW1-aac-g-07-0-UI.a1 NCI CGAP Sub7 Homo sapiens CDNA clone

IMAGE:3084469 3', mRNA sequence.

BF516504

BF516504.1 GI:11601683

EST.

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 301)

NCI CGAP <http://www.ncbi.nlm.nih.gov/ncigap>.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

Unpublished

Contact: Robert Strausberg, Ph.D.

Email: cga@bbs.fda.gov

Oligo-ct track not found. Not I site shown in beginning of sequence

is likely internal to the message. CDNA library preparation

Soares Lab Clone distribution: NCI CGAP clone distribution

Information can be found through the I.M.A.G.E. Consortium/LJML at:

www-bio.11nl.gov/bbrp/image/image.html

Seq primer: M13 Forward

POLYA=No.

Location/Qualifiers

1.301

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:3084469"

/lab_host="DH10B (Life Technologies)"

/note="Vector: pT73D-Pac (Pharmacia) with a modified

polylinker; Site 1: Not I; Site 2: Eco RI; NCI CGAP Sub7

is a subtracted library derived from NCI CGAP Sub6. The

NCI CGAP Sub7 library had 12 million recombinants. A

single-stranded DNA preparation of NCI CGAP Sub6 was used

as a tracer in a subtractive hybridization with a driver

comprising: the IMAGE pool (NCI CGAP Kid3 pool 1 LAM

3334-3337, 3682-3683, 3798-3803 (IMAGE Clones)

1322376-1323911, 1456008-1456775, 1500552-1502855);

NCI CGAP Kid5 pool 1 LAM 3338-3342, 3722-3725, 3776-3778

(IMAGE Clones 1323912-1325831, 1471368-1472803,

1492104-1493255); NCI CGAP LUS pool 1 LAM 3575-3582,

3851-3854 (IMAGE Clones 1414920-1417991, 1520904-1522439

); NCI CGAP GC4 pool 1 LAM 3164-3167, 3716-3720,

3733-3735 (IMAGE Clones 1257096-125631, 1469064-1470983

, 1475592-1476743); NCI CGAP P122 pool 1 LAM 2457-2459,

2758-2759, 3062-3068 (IMAGE Clones 965608-966739,

1101192-1101959, 1217928-1220615); NCI CGAP C010 pool 1

LHAM 2644-2653, 2871-2872 (IMAGE Clones 1057416-1061255

, 1144584-1145351). (6% of the driver population), plus a

pool of 3,840 arrayed clones from NCI CGAP Sub1 (IMAGE

Clones 2708616-2710535) and NCI CGAP Sub2 (IMAGE

Clones 2710536-2712455) (4% of the driver population

), plus a pool of 11,136 clones from NCI CGAP Sub3 (IMAGE

Clones 2712456-2723591) (10% of the driver population),

plus a pool of 5,472 clones from NCI CGAP Sub4 (IMAGE

Clones 2723592-2729326) (40% of the driver population),

plus a pool of 403 clones from NCI CGAP Sub6 (IMAGE

Clones 2728963-2733190) (40% of the driver population).

Subtraction was performed as previously described [Bonaldi

Lemon & Soares (1996): Normalization and Subtraction:

Two Approaches To Facilitate Gene Discovery. Genome

Research 6, 791-806.

TAG_Seq=None found"

44 a 88 c 82 g 87 t

BASE COUNT

ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 301;
 Best Local Similarity 100.0%; Pred. No. 60;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGCTGCACCTGT 16
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 DB 229 GGCTGCTGCACCTGT 244
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RESULT 12
 CB267362 317 bp mRNA linear EST 20-FEB-2003
 LOCUS CB267362/c
 DEFINITION 1006268 Human Fat Cell 5'-Stretch Plus cDNA Library Homo sapiens
 CDNA 5', mRNA sequence.
 ACCESSION CB267362
 VERSION CB267362.1 GI:28441947
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 TITLE Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 JOURNAL 1 (bases 1 to 317)
 Yano, R.-Z., Shuldiner, A. and Gong, D.-W.
 EST analysis of human adipose gene expression
 COMMENT Unpublished
 CONTACT: Gong Da-Mei
 Division of Endocrinology, Diabetes and Nutrition
 University of Maryland
 660 Redwood St., HH497, Baltimore, MD 21201, USA
 Tel: 410 706 1672
 Fax: 410 706 1622
 Email: dgong@medicine.umaryland.edu
 PCR PRIMER: CTCGGAGACGCCCATTTGTTGTT
 FORWARD: CTCGGAGACGCCCATTTGTTGTT
 BACKWARD: AATACGACTACATATAGCGCATTTGG
 Seq primer: GTTGGTACCGCGGATTC.
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 /sex="Male and Female"
 /tissue_type="adipose"
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 /note="Vector: lambdaIT15px"

BASE COUNT 89 a 78 c 97 g 52 t 1 others

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 317;
 Best Local Similarity 100.0%; Pred. No. 61;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGCTGCACCTGT 16
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 DB 136 GGCTGCTGCACCTGT 121
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RESULT 13
 BQ369040 319 bp mRNA linear EST 21-MAY-2002
 LOCUS BQ369040/c
 DEFINITION PM3-GN0516-060601-031-g03 GN0516 Homo sapiens cDNA, mRNA sequence.
 ACCESSION BQ369040
 VERSION BQ369040.1 GI:21044554
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 TITLE Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 JOURNAL 1 (bases 1 to 319)
 Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
 Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,
 Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H.,

TITLE
 JOURNAL
 MEDLINE
 PUBMED
 COMMENT

CONTACT: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
 Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the PAPESP/LICR Human Cancer Genome
 Project. This entry can be seen in the following URL
 (<http://www.ludwig.org.br/scripts/gethtml2.pl?l=PM3&t2=PM3-GN0516-060601-031-g03&t3=2001-06-06&t4=1>)
 Seq primer: puc 18 forward
 High quality sequence start: 17
 High quality sequence stop: 319.
 Location/Qualifiers
 1..319
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /dev_stage="Adult"
 /clone_id="GN0516"
 /note="Organ: placenta normal; Vector: puc18; Site 1: SmaI
 products derived from ONESIES PCR (U.S. Letters Patent
 application No. 196,716 - Ludwig Institute for Cancer
 Research) profiles into the puc 18 vector. Reverse
 transcription of tissue mRNA and cDNA amplification were
 performed under low stringency conditions."

BASE COUNT 93 a 79 c 92 g 54 t 1 others

ORIGIN

Query Match 88.9%; Score 16; DB 13; Length 319;
 Best Local Similarity 100.0%; Pred. No. 61;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGCTGCACCTGT 16
 |||||
 DB 97 GGCTGCTGCACCTGT 82
 |||||

RESULT 14
 BQ369218/c 319 bp mRNA linear EST 21-MAY-2002
 LOCUS BQ369218/c
 DEFINITION PM3-GN0516-020701-031-g03 GN0516 Homo sapiens cDNA, mRNA sequence.
 ACCESSION BQ369218
 VERSION BQ369218.1 GI:21044732
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 TITLE Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 JOURNAL 1 (bases 1 to 319)
 Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
 Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,
 Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H.,
 Brunstein, A., deOliveira, P.S., Butcher, P., Jongeneel, C.V., O'Hare
 M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
 Simpson, A.J.G.
 Shotgun sequencing of the human transcriptome with ORF expressed
 sequence tags
 Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
 MEDLINE
 PUBMED
 COMMENT Contact: Simpson A.J.G.

Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
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Email: asimpson@ludwig.org.br
This sequence was derived from the PAPSP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM3&t2=PM3-GN0516-
020701-031-g03&t3=2001-07-02&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 17
High quality sequence stop: 319.
Location/Qualifiers

FEATURES

source

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1.319
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_1lb="GN0516"
/note="Organ: placenta normal; Vector: puc18; Site_1: SmaI
; Site_2: SmaI; A mini-library was made by cloning
products derived from ORESTES PCR (U.S. Letters Patent
application No. 196,716 - Ludwig Institute for Cancer
Research) profiles into the pUC 18 vector. Reverse
transcription of tissue mRNA and cDNA amplification were
performed under low stringency conditions."
BASE COUNT      93 a      79 c      92 g      54 t      1 others
ORIGIN
```

Query Match 88.9%; Score 16; DB 13; Length 319;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGTACCTGT 16
|||||
Db 97 GGCTGGTGTACCTGT 82

RESULT 15
BF850266/c 335 bp mRNA linear EST 16-JAN-2001
LOCUS CM3-EN0077-181100-489-d09 EN0077 Homo sapiens cDNA, mRNA sequence.
ACCESSION BF850266
VERSION BF850266.1 GI:12237428
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 335)

REFERENCE
AUTHORS Dias, Neco, E., Garcia Correa, R., Verjowski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,
M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
Simpson, A.J.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE 20202663
PUBMED 10737800

COMMENT Contact: Simpson A.J.G.
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Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the PAPSP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL

(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM3&t2=CM3-EN0077-
181100-489-d09&t3=2000-11-18&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 52
High quality sequence stop: 335.
Location/Qualifiers

FEATURES

source

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1.335
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_1lb="EN0077"
/note="Organ: lung normal; Vector: puc18; Site_1: SmaI;
Site_2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
BASE COUNT      69 a      96 c      107 g      63 t
ORIGIN
```

Query Match 88.9%; Score 16; DB 10; Length 335;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGTACCTGT 16
|||||
Db 335 GGCTGGTGTACCTGT 320

RESULT 16
CB130696 377 bp mRNA linear EST 29-JAN-2003
LOCUS K-EST0180649 L11SNJ354 Homo sapiens cDNA clone L11SNJ354-17-C06 5',
DEFINITION mRNA sequence.
ACCESSION CB130696
VERSION CB130696.1 GI:28095037
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 377)

REFERENCE
AUTHORS Kim, N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,
Oh, K.J., Cheong, J.E., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and
Kim, Y.S.

TITLE 21C Frontier Korean EST Project 2001
JOURNAL Unpublished
COMMENT Contact: Kim YS
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Korea Research Institute of Bioscience & Biotechnology
52 Eoen-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 17 row: C column: 06
High quality sequence stop: 377.
Location/Qualifiers

FEATURES

source

```
1.377
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="L11SNJ354-17-C06"
/sex="M"
/tissue_type="Liver"
/cell_type="Polygonal"
/lab_host="Top10P"
/clone_1lb="L11SNJ354"
/note="Organ: Liver; Vector: pCMS-D2; Site_1: EcoRI;
Site_2: NotI; The poly (A) + RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
```

with tobacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including EcoRI site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dt-selected mRNA by priming with dt-tailed vector. The dt-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10⁺ by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

BASE COUNT

104 a 102 c 107 g 64 t

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 377;
Best Local Similarity 100.0%; Pred. No. 64;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGCTGCACCTGT 16

Db 141 GGCTGCTGCACCTGT 126

RESULT 17

H69706 394 bp mRNA linear EST 24-OCT-1995
LOCUS YR3A08.s1 Soares fetal liver spleen INFILS Homo sapiens cDNA clone
DEFINITION IMAGE:212822 3', mRNA sequence.

ACCESSION

H69706

VERSION

H69706.1 GI:1939912

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

1 (bases 1 to 394)

AUTHORS

Chissoe,S., Dietrich,N., Dubuque,T., Favell,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,N., Maridis,E., Moore,B., Morris,M., Parsons,J., Prange,C., Rifkin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thiery-Meg,J., Trevasaki,E., Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M.

Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)

JOURNAL

97044478

MEDLINE

8889549

COMMENT

Contact: Wilson RK

Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

PUBMED

8889549

FEATURES

source

High quality sequence stop: 345
Source: IMAGE Consortium, LNLN
This clone is available royalty-free through LNLN; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
Insert Length: 821 Std Error: 0.00
Seq primer: Promega-21m13
High quality sequence stop: 345.
Location/Qualifiers

FEATURES

source

1.394
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:3785663"
/db_xref="taxon:9606"
/clone="IMAGE:212822"
/sex="male"
/dev_stage="20 week-post conception fetus"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares fetal liver spleen INFILS"

/note="Organ: Liver and Spleen; Vector: pT73D (pharmacia) with a modified polylinker; Site 1: Pac I; Site 2: Eco RI; 1st strand cDNA was primed with a Pac I - oligo(dt) primer [5' AACGGAAGATTAATTAACATCTTTTCTTTTCTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT

102 a 81 c 106 g 102 t 3 others

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 394;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CTGCTGTCACTGTGTTA 18

Db 239 CTGCTGTCACTGTGTTA 224

RESULT 18

BM789452 395 bp mRNA linear EST 05-MAR-2002
LOCUS K-EST0069040 S22SNU16 Homo sapiens cDNA clone S22SNU16-2-A08 5',
DEFINITION mRNA sequence.

ACCESSION

BM789452

VERSION

BM789452.1 GI:19137684

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

1 (bases 1 to 395)

AUTHORS

Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R., Kim,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and Kim,Y.S.

JOURNAL

21C Frontier Korean EST Project 2001

COMMENT

Unpublished

Contact: Kim YS
Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Boseon-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 2 row: A Column: 08
High quality sequence stop: 395.

FEATURES

source

FEATURES

1.395

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="S22SNU16-2-A08"
/sex="F"
/tissue_type="Ascites"
/cell_type="Lymphoblast-like"
/cell_line="SNU-16"
/lab_host="DH10B"
/clone_lib="S22SNU16"
/note="Organ: Stomach; Vector: pT73-Pac; Site 1: EcoRI; Site 2: NotI; The S22SNU16 library was contributed by the Soares laboratory and it was constructed as described by Bonaldo, M.F., Lennon, G. and Soares, M.B. (1996), Genome Research 6(9): 791-806. RNA was prepared from harvested cells of SNU-16 culture. SNU-16 cell was obtained from Korean Cell Line Bank (KCLB). SNU-16 was established from ascitic fluids of Korean patients by Park J.G. et al. (1990), Cancer Res 50: 2773-2780."

BASE COUNT

111 a 104 c 116 g 64 t

ORIGIN

Query Match

88.9%; Score 16; DB 12; Length 395;

Insert Length: 1117 Std Error: 0.00
Seq primer: -28M13 rev2 from Amerisham
High quality sequence stop: 263.
Location/Qualifiers

FEATURES

source

1.428
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:462013"
/db_xref="taxon:9606"
/clone="IMAGE:588011"
/issue_type="tumor"
/cell_line="T84 carcinoma cell line"
/lab_host="SOLR cells (kanamycin resistant)"
/clone_1ib="Stratagene colon (#337204)"
/note="Organ: colon; Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dt: T-84 colonic epithelial cell line. Average insert size: 1.0 kb; Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GAATTCGACGACGAG 3' ~3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3' "
BASE COUNT 128 a 112 c 113 g 71 t 4 others
ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 428;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGCTGCACCTGT 16
Db 67 GGCTGCTGCACCTGT 52

RESULT 22
LOCUS AW732816/c 430 bp mRNA linear EST 21-APR-2000
DEFINITION b14h10.y1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:2962915 5' similar to TR:O14801 O14801 EURARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT. [1] ; mRNA sequence.
ACCESSION AW732816
VERSION AW732816.1 GI:7633154
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo; 1 (bases 1 to 430)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
image.lnl.gov/image/html/resources.shtml
Seq primer: -40RP from Gibco
High quality sequence stop: 412.
Location/Qualifiers

FEATURES

source

1.430
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2962915"
/issue_type="choriocarcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH_MGC_21"
/note="Organ: Placenta; Vector: pOT87; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp

for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). "

BASE COUNT

119 a 112 c 125 g 74 t

ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 430;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGCTGCACCTGT 16
Db 140 GGCTGCTGCACCTGT 125

RESULT 23
LOCUS BF850584/c 431 bp mRNA linear EST 16-JAN-2001
DEFINITION PM1-EN0065-191100-007-h05 EN0065 Homo sapiens cDNA, mRNA sequence.
ACCESSION BF850584
VERSION BF850584.1 GI:12237746
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo; 1 (bases 1 to 431)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Coesla, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
JOURNAL MEDLINE 20202663
PUBMED 10737800
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704932
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-EN0065-191100-007-h05&t3=2000-11-19&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 39
High quality sequence stop: 431.
Location/Qualifiers

FEATURES

source

1.431
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_1ib="EN0065"
/note="Organ: lung normal; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
BASE COUNT 65 a 157 c 107 g 102 t
ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 431;
Best Local Similarity 100.0%; Pred. No. 66;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
 Db 361 GGCTGGTGCACCTGT 346

RESULT 24
 CB270361/c 431 bp mRNA linear EST 20-FEB-2003
 LOCUS CB270361
 DEFINITION 1009268 Human Fat Cell 5'-Stretch Plus cDNA Library Homo sapiens
 ACCESSION CB270361
 VERSION CB270361.1 GI:28444946
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 431)
 Yang, R.-Z.; Shuldiner, A. and Gong, D.-W.
 EST analysis of human adipose gene expression
 Unpublished
 Contact: Gong Da-Wei
 Division of Endocrinology, Diabetes and Nutrition
 University of Maryland
 660 Redwood St. HH497, Baltimore, MD 21201, USA
 Tel: 410 706 1672
 Fax: 410 706 1622
 Email: dgong@medicine.umaryland.edu
 PCR Primers
 FORWARD: CTCGGAGCGCCCATTTGGTGTG
 BACKWARD: AATAGACTACTATGAGCGCAATGG
 Seq primer: GTTGGTACCGCGCAATTC.
 Location/Qualifiers
 1. 431
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /sex="Male and Female"
 /tissue_type="Adipose"
 /clone_lib="Human Fat Cell 5'-Stretch Plus cDNA library"
 /note="Vector: lambdaTriplex"

BASE COUNT 120 a 112 c 125 g 74 t

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 431;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
 Db 135 GGCTGGTGCACCTGT 120

RESULT 25
 CB145604/c 433 bp mRNA linear EST 29-JAN-2003
 LOCUS CB145604
 DEFINITION K-EST0200441 L11SNJ354s1 Homo sapiens cDNA clone L11SNJ354s1-13-C11
 5', mRNA sequence.
 ACCESSION CB145604
 VERSION CB145604.1 GI:28125676
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 433)
 Kim, N.S.; Hahn, Y.; Oh, J.H.; Lee, J.Y.; Ahn, H.Y.; Chu, M.Y.; Kim, M.R.; Oh, K.J.; Cheong, J.E.; Sohn, H.Y.; Kim, J.M.; Park, H.S.; Kim, S. and Kim, Y.S.
 21C Frontier Korean EST Project 2001
 Unpublished

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 52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kribb.re.kr
 Plate: 13 row: C column: 11
 High quality sequence stop: 433.
 Location/Qualifiers
 1. 433
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="L11SNJ354s1-13-C11"
 /sex="M"
 /tissue_type="Liver"
 /cell_type="Polygonal"
 /cell_line="SNJ-354"
 /lab_host="Top10F"
 /clone_lib="L11SNJ354s1"
 /note="Organ: Liver; Vector: PCNS-D2; Site 1: EcoRI; Site 2: NotI. The poly (A)+ RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then deacapped with tabacco acid pyrophosphatase (TAP). The deacapped intact mRNA was ligated with DNA-RNA linker including EcoRI site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dt-selected mRNA by priming with dt-tailed vector. The dt-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10F by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library. After analyzing and sequencing about 2,000 - 3,000 colonies in original cDNA library, the abundant cDNAs were selected and amplified by PCR reaction using vector region primer including T7 promoter as 5' primer and NidR14 as 3' primer. The PCR products were used as template for synthesis of biotinylated single stranded RNA by in vitro transcription reaction. The synthesized RNA probes were hybridized with antisense single stranded cDNAs prepared from original library and incubated with avidin-gel. After removing DNA-RNA hybrids by centrifuge, the substracted cDNA libraries were constructed by transformation of the remaining DNA into competent cells E. coli Top10F with electroporation method."

BASE COUNT 110 a 115 c 131 g 77 t

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 433;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
 Db 187 GGCTGGTGCACCTGT 172

RESULT 26
 CB129626/c 434 bp mRNA linear EST 29-JAN-2003
 LOCUS CB129626
 DEFINITION K-EST0179303 L11SNJ354 Homo sapiens cDNA clone L11SNJ354-16-B02 5', mRNA sequence.
 ACCESSION CB129626
 VERSION CB129626.1 GI:28093354
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE
AUTHORS

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 434)
Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
Kim,Y.S.

TITLE
JOURNAL
COMMENT

21C Frontier Korean EST Project 2001
Unpublished
Contact: Kim YS
Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 16 row: B column: 02
High quality sequence stop: 434.

FEATURES
source

Location/Qualifiers
1. 434

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="U11SNJ354-16-B02"
/sex="M"
/tissue_type="liver"
/cell_type="Polygonal"
/cell_line="SNU-354"
/lab_host="Top10F"
/clone_lib="U11SNJ354"
/note="Organ: Liver; Vector: pCNS-D2; Site: 1: EcoRI;
Site: 2: NotI; The poly (A) + RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tobacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including
EcoRI site by treatment of T4 RNA ligase and the first
strand cDNA was synthesized from oligo dt-selected mRNA by
priming with dt-tailed vector. The dt-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with E. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of
competent cells E. coli Top10F by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library."

BASE COUNT 122 a 112 c 125 g 75 t
ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 434;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
|||||
Db 142 GGCTGGTGCACCTGT 127

RESULT 27 436 bp mRNA linear EST 29-JAN-2003
CB142213/C
LOCUS
DEFINITION
K-EST0195953 U11SNJ354s1 Homo sapiens cDNA clone U11SNJ354s1-19-E11
5', mRNA sequence.
ACCESSION
CB142213
VERSION
CB142213.1 GI:28118094
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM

REFERENCE
AUTHORS
Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
Kim,Y.S.
21C Frontier Korean EST Project 2001

JOURNAL
COMMENT

Unpublished
Contact: Kim YS
Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 19 row: B column: 11
High quality sequence stop: 436.

FEATURES
source

Location/Qualifiers
1. 436

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="U11SNJ354s1-19-E11"
/sex="M"
/tissue_type="liver"
/cell_type="Polygonal"
/cell_line="SNU-354"
/lab_host="Top10F"
/clone_lib="U11SNJ354s1"
/note="Organ: Liver; Vector: pCNS-D2; Site: 1: EcoRI;
Site: 2: NotI; The poly (A) + RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tobacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including
EcoRI site by treatment of T4 RNA ligase and the first
strand cDNA was synthesized from oligo dt-selected mRNA by
priming with dt-tailed vector. The dt-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with E. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of
competent cells E. coli Top10F by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library. After analyzing and
sequencing about 2,000 - 3,000 colonies in original cDNA
library, the abundant cDNAs were selected and amplified by
PCR reaction using vector region primer including T7
promotor as 5' primer and NidT14 as 3' primer. The PCR
products were used as template for synthesis of
biotinylated single stranded RNA by in vitro transcription
reaction. The synthesized RNA probes were hybridized with
antisense single stranded cDNAs prepared from original
library and incubated with avidin-gel. After removing
DNA-RNA hybrids by centrifuge, the subtracted cDNA
libraries were constructed by transformation of the
remaining DNA into competent cells E. coli Top10F with
electroporation method."

BASE COUNT 112 a 113 c 132 g 79 t
ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 436;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
|||||
Db 172 GGCTGGTGCACCTGT 157

RESULT 28 438 bp mRNA linear EST 16-JAN-2001
BF858511/C
LOCUS
DEFINITION
R01-PT0190-221100-021-c02 F0190 Homo sapiens cDNA, mRNA sequence.
ACCESSION
BF858511
VERSION
BF858511.1 GI:12246255
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 438)
 AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,M. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
 Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
 Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
 MEDLINE 20202663
 PUBMED 10737800
 COMMENT Contact: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
 (http://www.ludwig.org.br/scripts/gethtml2.pl?l=RCL&t=RCL-FT0190-221100-021-c02&t3=2000-11-22&t4=1)
 Seq primer: puc 18 forward
 High quality sequence start: 27
 Location/Qualifiers
 FEATURES
 source
 1. 438
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /dev_stage="Adult"
 /clone_1lb="FT0190"
 /note="Organ: prostate tumor; Vector: puc18; Site 1: Sma1; Site 2: Sma1; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
 BASE COUNT 115 a 110 c 133 g 80 t
 ORIGIN
 Query Match 88.9%; Score 16; DB 10; Length 438;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGCTGGTGCACCTGT 16
 |||||
 |||||
 Db 173 GGCTGGTGCACCTGT 158
 RESULT 29
 BG104409/c 447 bp mRNA linear EST 30-JAN-2001
 LOCUS 602311027F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4422918 5',
 DEFINITION mRNA sequence.
 ACCESSION BG104409
 VERSION BG104409.1 GI:12598251
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 447)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-r@mail.nih.gov
 Tissue Procurement: ATCC/DCTD/DTP

CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov
 Plate: LNCM1218 row: 1 column: 07
 High quality sequence stop: 445.
 Location/Qualifiers
 FEATURES
 source
 1. 447
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone_1lb="IMAGE:4422918"
 /tissue_type="melanotic melanoma"
 /lab_host="DH10B (phage-resistant)"
 /clone_1lb="NIH MGC 20"
 /note="Organ: skin; Vector: pORF7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCGACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
 BASE COUNT 129 a 116 c 134 g 68 t
 ORIGIN
 Query Match 88.9%; Score 16; DB 10; Length 447;
 Best Local Similarity 100.0%; Pred. No. 67;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGCTGGTGCACCTGT 16
 |||||
 |||||
 Db 119 GGCTGGTGCACCTGT 104
 RESULT 30
 BF130453/c 449 bp mRNA linear EST 24-OCT-2000
 LOCUS 601818761F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:404398 5',
 DEFINITION mRNA sequence.
 ACCESSION BF130453
 VERSION BF130453.1 GI:10969493
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 449)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-r@mail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: CLONETECH Laboratories, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
 http://image.lnl.gov
 Plate: LNCM868 row: 3 column: 15
 High quality sequence stop: 449.
 Location/Qualifiers
 FEATURES
 source
 1. 449
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone_1lb="IMAGE:404398"
 /tissue_type="hypernephroma"
 /lab_host="DH10B (T1 phage-resistant)"
 /clone_1lb="NIH_MGC_58"
 /note="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site 1:

Sf11 (ggccgctcggcc); Site 2: Sf11 (ggccatcggcc);
Double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGACC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGGAGCGCCGACATG-dT(30)BN-3' (where B = A, C, G or T). Average insert size 1.35 kb (range 0.9-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."

BASE COUNT 110 a 124 c 130 g 85 t

ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 449;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGCTGGTGCACCTGT 16
122 GGCTGGTGCACCTGT 107

Db

RESULT 31
BE909128/c 452 bp mRNA linear EST 20-OCT-2000
LOCUS 601501730F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903510 5',
DEFINITION mRNA sequence.

ACCESSION BE909128
VERSION BE909128.1 GI:10404401
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 452)
AUTHORS NIH-MGC http://mgs.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Plate: L1AM9707 row: 1 column: 07
High quality sequence stop: 452.
Location/Qualifiers

FEATURES
source 1..452
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3903510"
/tissue_type="epithelioid carcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_11b="NIH_MGC_70"
/note="Organ: pancreas; Vector: PCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.1 kb. Library constructed by Life Technologies."

BASE COUNT 127 a 117 c 133 g 75 t

ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 452;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGCTGGTGCACCTGT 16
137 GGCTGGTGCACCTGT 122

Db

RESULT 32
BX475327/c 452 bp mRNA linear EST 12-JUN-2003
LOCUS DKFZp686109176_r1 686 (synonym: h1cc3) Homo sapiens cDNA clone
DEFINITION DKFZp686109176 5', mRNA sequence.
ACCESSION BX475327
VERSION BX475327.1 GI:31672610
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 452)
AUTHORS Bahr, A., Lauber, J., Mewes, H.W., Weil, B., Amd, C., Osanger, A., Fobbo, G., Han, M., and Wiemann, S.
EST (Bahr, A., Lauber, J., Mewes, H.W., Weil, B., et al.)
Unpublished
Contact: Bahr A

TITLE
JOURNAL
COMMENT

MIPS
Ingolstaedter Landstr.1, D-85764 Neuberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by Qiagen (Hilden/Germany) within the cDNA sequencing consortium of the German Genome Project.
No si sequence available.
This clone (DKFZp686109176) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
Location/Qualifiers

FEATURES
source 1..452
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DKFZp686109176"
/tissue_type="human skeletal muscle"
/dev_stage="adult"
/lab_host="DH10B"
/clone_11b="686 (synonym: h1cc3)"
/note="Vector: pTR1p1Bx2; Site_1: Sf1IA; Site_2: Sf1IB; cDNA-collection"

BASE COUNT 114 a 120 c 138 g 80 t

ORIGIN

Query Match 88.9%; Score 16; DB 13; Length 452;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGCTGGTGCACCTGT 16
184 GGCTGGTGCACCTGT 169

Db

RESULT 33
AA496839/c 453 bp mRNA linear EST 12-AUG-1997
LOCUS aei3b02.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897579
DEFINITION 5' similar to contains Alu repetitive element; contains element TAR1 repetitive element; mRNA sequence.
ACCESSION AA496839
VERSION AA496839.1 GI:2230160
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 453)
AUTHORS Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Scheinberg, K., Stepien, M., Tan, F., Theising, B., White, Y., Wyllie, T., Waterston, R., and Wilson, R.
WashU-Merck EST Project 1997

TITLE

JOURNAL
COMMENT

Unpublished
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
High quality sequence stop: 427.

FEATURES

source

Location/Qualifiers

1.453
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:897579"
/sex="pooled (6)"
/lab_host="DH10B"
/clone_lib="Gessler Wilms tumor"
/note="Vector: pSPORT1, Site 1: SalI; Site 2: NotI; RNA
was prepared from a pool of 6 anonymous Wilms' tumor RNAs.
RNA was prepared by acid-phenol, followed by one round of
oligo dT selection. cDNA library preparation was with
the BRL/Life Tech. Superscript Plasmid system. An
oligo-dT NotI primer for first strand synthesis generated
ggcgccgcc(tln at the 3' end of the clones. A 5' SalI
adaptor was used with sequence 5'-gtcgaccgacgctcg-3'.
Resulting cDNAs were size selected (average size 2 kb),
NotI digested, and ligated into NotI/SalI-cut pSPORT1.
Library was constructed by Dr. Manfred Gessler."

BASE COUNT
ORIGIN

115 a 124 c 135 g 79 t

Query Match 88.9%; Score 16; DB 9; Length 453;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGCACCTGT 16
|||||
Db 117 GGCTGGTGCACCTGT 102

RESULT 34
BM171994 454 bp mRNA linear EST 04-DEC-2001
LOCUS imageg3.3 2001/smm196bdf41.xl NIH_MGC_61 Homo sapiens cDNA clone
DEFINITION IMAGE:4686857 5', mRNA sequence.
ACCESSION BM171994
VERSION BM171994.1 GI:17311557
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 454)
Kale, P.I., Harsch, T.J., Folta, P.A., Nelson, D.O., Sanders, C.G. and
Prange, C.K.
The I.M.A.G.E. Consortium quality control effort: clone
Unpublished
Other_ESTS: BG529561
Contact: Prange CK
The I.M.A.G.E. Consortium
Lawrence Livermore National Laboratory
Livermore, CA, USA
Email: help@image.llnl.gov

This read has been verified (found to hit its original self in the
correct orientation), as part of the I.M.A.G.E. Consortium quality
control effort. High quality sequence is defined as having 100 or
more base pairs with a phred quality value of 20 or greater, where
a sliding window of 4 base pairs with a phred quality value of 15
or greater marks the beginning and end of the sequence. For
information on obtaining this clone, please contact

info@image.llnl.gov.
Plate: L1CM1498 row: k column: 18
Seq primer: -21m13
High quality sequence stop: 454.
Location/Qualifiers

FEATURES
source

1.454
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4686857"
/tissue_type="embryonal carcinoma"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_61"
/note="Organ: testis; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggcgccgcgccc); Site 2: SfiI (ggcgccatcgcc);
Double-stranded cDNA was prepared from cell line RNA. 5'
and 3' adaptors were used in cloning as follows: 5'
adaptor sequence: 5'-CACGCCATTATGCGC-3' and 3' adaptor
sequence: 5'-ATTCTAGAGCGCGAGCGCGCGACATG-dT(30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.75 kb (range 0.9-4.0 kb). 15/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech
Laboratories (Palo Alto, CA). Note: this is a NIH_MGC
Library."

BASE COUNT
ORIGIN

74 a 146 c 117 g 116 t 1 others

Query Match 88.9%; Score 16; DB 12; Length 454;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGCACCTGT 16
|||||
Db 208 GGCTGGTGCACCTGT 223

RESULT 35
BF035036 455 bp mRNA linear EST 20-OCT-2000
LOCUS 601456130F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859734 5',
DEFINITION mRNA sequence.
ACCESSION BF035036
VERSION BF035036.1 GI:10742748
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 455)
Email: cga@bs-remail.nih.gov
Tissue Procurement: DCTD/DTF
CDNA Library Preparation: Life Technologies, Inc.
CDNA library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM9593 row: 1 column: 07
High quality sequence stop: 455.
Location/Qualifiers

FEATURES
source

1.455
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3859734"
/tissue_type="adenocarcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_66"

/note="Organ: ovary; Vector: PCMV-SPORT6; Site_1: NotI;
 Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.8 kb. Library constructed by Life
 Technologies."
 BASE COUNT 129 a 117 c 133 g 76 t
 ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 455;
 Best Local Similarity 100.0%; Pred. No. 67;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGTACCTGT 16
 |||||
 Db 138 GGCTGGTGTACCTGT 123

Search completed: August 15, 2003, 10:57:39
 Job time : 1136.8 secs .

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 21:32:41 ; Search time 492.975 Seconds
(without alignments)
1493.734 Million cell updates/sec

Title: US-10-074-620-1

Perfect score: 18
Sequence: 1 ggcgtgctgcacctgtta 18

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 2888711 seqs, 20454813386 residues

Word size : 0

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 120 summaries

Database :

GenBml:*

1: gb_ba:*

2: gb_htg:*

3: gb_in:*

4: gb_ov:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_ro:*

11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_vi:*

15: em_ba:*

16: em_fth:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_pl:*

26: em_ro:*

27: em_sts:*

28: em_un:*

29: em_vi:*

30: em_htg_hum:*

31: em_htg_inv:*

32: em_htg_other:*

33: em_htg_mus:*

34: em_htg_pln:*

35: em_htg_rtd:*

36: em_htg_man:*

37: em_htg_vrt:*

38: em_sy:*

39: em_hlgo_hum:*

40: em_hlgo_mus:*

41: em_hlgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	AX522236	AX522236 Sequence
2	18	100.0	175005	AC137657	AC137657 Sns scrof
3	17	94.4	88557	AL136314	AL136314 Human DNA
4	17	94.4	107979	AP006146	AP006146 Lotus jap
5	17	94.4	226979	AC128140	AC128140 Rattus no
6	17	94.4	231014	AC096132	AC096132 Rattus no
7	17	94.4	238552	AC140198	AC140198 Mus muscu
8	17	94.4	244424	AC131614	AC131614 Rattus no
9	17	94.4	244636	AC123215	AC123215 Rattus no
10	17	94.4	248793	AC103080	AC103080 Rattus no
11	16	88.9	20	126102	126102 Sequence 28
12	16	88.9	50	AR032934	AR032934 Sequence
13	16	88.9	50	AR209598	AR209598 Sequence
14	16	88.9	50	I28674	I28674 Sequence 54
15	16	88.9	50	I91348	I91348 Sequence 54
16	16	88.9	435	BD025521	BD025521 Sequence
17	16	88.9	455	AX321046	AX321046 Sequence
18	16	88.9	963	BT006889	BT006889 Homo sapi
19	16	88.9	963	BT007572	BT007572 Synthetic
20	16	88.9	1041	I04174	I04174 Sequence 3
21	16	88.9	1103	AF020833	AF020833 Homo sapi
22	16	88.9	1115	HS096074	HS096074 Human trans
23	16	88.9	1128	BC000733	BC000733 Homo sapi
24	16	88.9	1138	BC008469	BC008469 Homo sapi
25	16	88.9	1142	BD063236	BD063236 Secretd
26	16	88.9	1174	AF094850	AF094850 Homo sapi
27	16	88.9	2199	AF348456	AF348456 Desmodem
28	16	88.9	2556	AF172333	AF172333 Human her
29	16	88.9	2661	AF172332	AF172332 Human her
30	16	88.9	2661	14 EBVBLF1A	X67776 Epstein-Bar
31	16	88.9	2663	14 EBVBLF1A	X99106 Epstein-Bar
32	16	88.9	2721	6 E00513	E00513 Genomic DNA
33	16	88.9	3210	14 HS4GP340A	L07922 Epstein-Bar
34	16	88.9	3400	6 E01128	A11128 Synthetic n
35	16	88.9	3400	6 E01006	E01006 CDNA encodi
36	16	88.9	3833	6 AR049357	AR049357 Sequence
37	16	88.9	4988	14 HS4GP340B	L07923 Epstein-Bar
38	16	88.9	5019	6 A11178	A11178 Synthetic n
39	16	88.9	5019	6 E01007	E01007 DNA sequenc
40	16	88.9	5931	14 HS4ENVGCP	MI0593 Epstei
41	16	88.9	5931	14 HS4ENVGCP	AF092453 Homo sapi
42	16	88.9	6450	5 TRUS04410	AJ504410 Takifugu
43	16	88.9	108036	9 AC084352	AC084352 Homo sapi
44	16	88.9	128641	10 AL845521	AL845521 Mouse DNA
45	16	88.9	129048	9 AC020931	AC020931 Homo sapi
46	16	88.9	168012	2 AC025565	AC025565 Homo sapi
47	16	88.9	169734	2 AC106748	AC106748 Homo sapi
48	16	88.9	170803	2 AC016155	AC016155 Homo sapi
49	16	88.9	171823	14 HNV507799	AJ507799 Human her
50	16	88.9	172281	14 EBV	V01555 Epstein-Bar
51	16	88.9	173950	9 AL390961	AL390961 Human DNA
52	16	88.9	174937	2 AC022245	AC022245 Homo sapi
53	16	88.9	184113	14 HS4B958RAJ	M80517 Epstei-Bar
54	16	88.9	194148	2 AC125349	AC125349 Mus muscu
55	16	88.9	196360	2 AC132652	AC132652 Rattus no
56	16	88.9	217717	2 BX530016	BX530016 Mus muscu
57	16	88.9	225024	2 AC116415	AC116415 Mus muscu
58	16	88.9	234288	2 AL772311	AL772311 Mus muscu
59	16	88.9	244595	2 AC095144	AC095144 Rattus no
60	16	88.9	244784	2 AC117356	AC117356 Rattus no
61	16	88.9	247249	2 AC023526	AC023526 Homo sapi
62	16	88.9	26738	2 AL138896	AL138896 Homo sapi
63	16	88.9	266	11 G37013	G37013 SHGC-56377
64	15	83.3	622	11 BV025210	BV025210 S212P6604
65	15	83.3	622	11	

C	66	15	83.3	688	10	AF327854	AF327854	Spermophi
	67	15	83.3	781	11	BV059337	BV059337	S212P6928
	68	15	83.3	1419	6	E54455	E54455	Gene causat
	69	15	83.3	1419	10	AF124044	AF124044	Mus muscu
	70	15	83.3	1808	6	AR262598	AR262598	Sequence
	71	15	83.3	2293	6	E30803	E30803	Novel prote
	72	15	83.3	2301	6	E30804	E30804	Novel prote
	73	15	83.3	2952	6	AX017503	AX017503	Sequence
	74	15	83.3	2952	6	BD135193	BD135193	Human nuc
	75	15	83.3	3034	10	AK122327	AK122327	Mus muscu
	76	15	83.3	3065	6	AR262597	AR262597	Sequence
	77	15	83.3	3233	3	TYR308995	TYR308995	Trypanoso
C	78	15	83.3	3306	10	AB017609	AB017609	Mus muscu
	79	15	83.3	3337	6	E30802	E30802	Novel prote
	80	15	83.3	3660	10	AB017608	AB017608	Mus muscu
	81	15	83.3	3674	6	E30801	E30801	Novel prote
	82	15	83.3	3680	10	BC017126	BC017126	Mus muscu
C	83	15	83.3	4190	10	M60103	M60103	Rattus norv
C	84	15	83.3	4685	10	RNLAR1	RNLAR1	R. norvegicu
C	85	15	83.3	6412	9	BC048768	BC048768	Homo sapi
C	86	15	83.3	6545	10	RATLARA	RATLARA	Rat leukocy
	87	15	83.3	6550	6	AX453123	AX453123	Sequence
	88	15	83.3	6553	6	AX453171	AX453171	Sequence
	89	15	83.3	6553	8	AF332878	AF332878	Cochliobo
	90	15	83.3	6672	6	AX335949	AX335949	Sequence
	91	15	83.3	6672	9	HSU18259	HSU18259	Human clone
C	92	15	83.3	7702	6	AX658135	AX658135	Sequence
C	93	15	83.3	7702	9	HSLAR	HSLAR	Human mRNA
C	94	15	83.3	10040	10	AF467766	AF467766	Mus muscu
	95	15	83.3	14454	10	AB019041	AB019041	Mus muscu
C	96	15	83.3	33608	10	AC003057	AC003057	Mouse Cos
C	97	15	83.3	40438	10	AC087410	AC087410	Homo sapi
C	98	15	83.3	42115	6	AX453180	AX453180	Sequence
	99	15	83.3	43101	3	AY198941	AY198941	Drosophi1
	100	15	83.3	43927	9	HSU69568	HSU69568	Human Xq28
	101	15	83.3	51730	9	AF324889S2	AF324889	Homo sapi
C	102	15	83.3	53234	9	AC130889	AC130889	Homo sapi
C	103	15	83.3	57224	2	AC136542	AC136542	Rattus no
C	104	15	83.3	60761	2	AC102704	AC102704	Mus muscu
C	105	15	83.3	67197	2	AF510423S1	AF510423	Homo sapi
	106	15	83.3	71983	9	AL445429	AL445429	Human DNA
	107	15	83.3	72000	9	AP001102	AP001102	Homo sapi
	108	15	83.3	73597	2	AC109598	AC109598	Homo sapi
	109	15	83.3	74089	9	AL589762	AL589762	Human DNA
C	110	15	83.3	82419	9	AC004979	AC004979	Homo sapi
	111	15	83.3	83549	9	AC004752	AC004752	Homo sapi
	112	15	83.3	87157	9	AL136143	AL136143	Human DNA
C	113	15	83.3	88376	9	AL512407	AL512407	Human DNA
C	114	15	83.3	88554	10	AL669960	AL669960	Mouse DNA
C	115	15	83.3	90497	9	HS732E4	HS732E4	Human DNA
	116	15	83.3	101882	9	AC021089	AC021089	Homo sapi
	117	15	83.3	101956	2	AP002494	AP002494	Homo sapi
	118	15	83.3	108765	2	AF216674	AF216674	Homo sapi
	119	15	83.3	109391	2	AL160031	AL160031	Human DNA
C	120	15	83.3	110000	2	AC106541_3	Continuation (4 of	

ALIGNMENTS

RESULT 1
LOCUS AX522236 18 bp DNA
DEFINITION Sequence 1 from Patent WO02064842.
ACCESSION AX522236
VERSION AX522236.1 GI:24411114
KEYWORDS
SOURCE Human herpesvirus 4 (Epstein-Barr virus)
ORGANISM Human herpesvirus 4
VIRUSES, dsDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Lymphocryptovirus.

REFERENCE
AUTHORS

1 Wilte,D.P. and Groen,P.A.

TITLE Quantitative epstein barr virus pcr rapid assay
JOURNAL Patent: WO 02064842-A 1 22-AUG-2002;
CHILDREN'S Hospital Research Foundation (US)
LOCATION/Qualifiers
FEATURES
Source
1.18
/organism="Human herpesvirus 4"
/mol_type="genomic DNA"
/db_xref="taxon:10376"
BASE COUNT
2 a 4 c 6 g 6 t
ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGCTCACCCTGTA 18
1 GGCTGCTCACCCTGTA 18
Db

RESULT 2
AC137657/c
LOCUS AC137657 175005 bp DNA linear HTG 21-MAR-2003
DEFINITION Sus scrofa clone RP44-494H16, WORKING DRAFT SEQUENCE, 12 ordered
pieces.
ACCESSION AC137657
VERSION AC137657.2 GI:29135576
KEYWORDS HTG; HTGS_PHASE2; HTGS_DRAFT.
SOURCE Sus scrofa (pig)
ORGANISM Sus scrofa

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 175005)

Akher,N., Antonellis,A., Ayele,K., Beckettom-Sternberg,S.M.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Carriaga,K., Coleman,B., Engle,J., Granite,S., Guan,X., Gupta,J.,
Haghighi,P., Han,J., Hansen,N., Ho,S.-L., Idol,J.R., Karlins,E.,
Laric,P., Lee-Lin,S.-Q., Legaspi,R., Maduro,Q.L., Maduro,V.B.,
Margulies,E.H., Mastello,C., Maskeri,B., Mcowell,J.,
Ragurrian,C., Pearson,R., Portnoy,M.E., Prasad,A.,
Reddy-Bugue,N., Schandler,K., Scheller,M.G., Sison,C.,
Stankipod,S., Thomas,J.W., Thomas,P.J., Touchman,J.W., Vogt,J.L.,
Wetherby,K.D., Wiggins,L., Young,A. and Green,E.D.
NISC Comparative Sequencing Initiative
Unpublished
2 (bases 1 to 175005)

REFERENCE
AUTHORS Green,E.D.
TITLE Direct Submission
JOURNAL Submitted (27-NOV-2002) NIH Intramural Sequencing Center, 8717
Groveomont Circle, Gaitersburg, MD 20877, USA
3 (bases 1 to 175005)

REFERENCE
AUTHORS Green,E.D.
TITLE Direct Submission
JOURNAL Submitted (21-MAR-2003) NIH Intramural Sequencing Center, 8717
Groveomont Circle, Gaitersburg, MD 20877, USA
On Mar 21, 2003 this sequence version replaced gi:25700398.

COMMENT ----- Genome Center

Center: NIH Intramural Sequencing Center
Center code: NISC
Web site: http://www.nisc.nih.gov
Contact: nisc.zoo@nhgri.nih.gov
----- Project Information
Center project name: ecg
Center clone name: 494H16

The sequence data in this record represents an 'enhanced' version of a Phase 2 submission. Specifically, the indicated order and orientation of each sequence contig has been established using one or more of the following: read-pair data from individual subclones, overlaps with neighboring clones, alignment with available reference sequence (e.g., human), and/or confirmation by PCR testing. In addition, the sequence assembly is based on at least 8x average

coverage in Q20 bases and has been reviewed to rule out gross misassemblies, the low-quality ends of sequence contigs have been trimmed away, and each base is associated with a Phrap-derived quality score.

----- Summary Statistics -----

Sequencing vector: plasmid; n/a; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.990319
 Consensus quality: 171640 bases at least Q40
 Consensus quality: 172768 bases at least Q30
 Consensus quality: 173465 bases at least Q20
 Insert size: 168000; agarose-IP
 sum-of-contigs
 Quality coverage: 9.32x in Q20 bases; agarose-IP
 Quality coverage: 9.01x in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 12 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have been provided by the submitter.

* This sequence will be replaced by the finished sequence as soon as it is available and the accession number will be preserved.

```

1      8074: contig of 8074 bp in length
*      8075      8174: gap of unknown length
*      8175      33811: contig of 25637 bp in length
*      33812      33911: gap of unknown length
*      33912      36776: contig of 2765 bp in length
*      36777      36776: gap of unknown length
*      36777      50073: contig of 13297 bp in length
*      50074      50173: gap of unknown length
*      50174      57164: contig of 6991 bp in length
*      57165      57264: gap of unknown length
*      57265      59445: contig of 2181 bp in length
*      59446      59445: gap of unknown length
*      59446      72773: contig of 13228 bp in length
*      72774      72873: gap of unknown length
*      72874      124522: contig of 51649 bp in length
*      124523      124622: gap of unknown length
*      124623      143805: contig of 19183 bp in length
*      143806      143905: gap of unknown length
*      143906      149152: contig of 5247 bp in length
*      149153      149252: gap of unknown length
*      149253      167607: contig of 18355 bp in length
*      167608      167707: gap of unknown length
*      167708      175005: contig of 7298 bp in length.

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FEATURES

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  1. .175005
    /organism="Sus scrofa"
    /mol_type="genomic DNA"
    /db_xref="taxon:9823"
    /clone="RP4-494H16"
    /clone_1fb="RP4"
  1. .8074
    /note="assembly_fragment"
    /vector_side:left
    /vector_end:right
  8175. .33811
    /note="assembly_fragment"
  33912. .36676
    /note="assembly_fragment"
  36777. .50073
    /note="assembly_fragment"
  50174. .57164
    /note="assembly_fragment"
  57265. .59445
    /note="assembly_fragment"
  59546. .72773
    /note="assembly_fragment"
  72874. .124522
    /note="assembly_fragment"

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misc_feature 124623..143805
              /note="assembly_fragment"
misc_feature 143906..149152
              /note="assembly_fragment"
misc_feature 149253..167607
              /note="assembly_fragment"
misc_feature 167708..175005
              /note="assembly_fragment"

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BASE COUNT 36244 a 47550 c 50242 g 39869 t 1100 others
ORIGIN

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Query Match 100.0%; Score 18; DB 2; Length 175005;
Best Local Similarity 100.0%; Pred. NO. 0.66;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 1 GGCTGGTGCACCTGTTA 18
Db 18124 GGCTGGTGCACCTGTTA 18107

```

```

RESULT 3
AL136314/c 88557 bp DNA linear PRI 01-NOV-2000
LOCUS Human DNA sequence from clone RP4-579A14 on chromosome 6, complete
DEFINITION

```

```

ACCESSION AL136314
VERSION AL136314.12 GI:11120979
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

```

```

REFERENCE Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE 1 (bases 1 to 88557)
JOURNAL Peck, A.

```

```

COMMENT Direct Submission
Submitted (31-OCT-2000) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquerry@sanger.ac.uk
Requester: clonerequest@sanger.ac.uk
On Nov 8, 2000 this sequence version replaced gi:10931919.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence has been finished according to sequence map criteria
as follows. An attempt is made to resolve all sequencing problems,
such as compressions and repeats, but not necessarily within known
annotated human repeat sequence elements (e.g. Alu). Where the
sequence is ambiguous, there is an annotation using the 'unsure'
feature key.
The following abbreviations are used to associate primary accession
numbers given in the feature table with their source databases:
Em: EMBL; Sw: SWISSPROT; Tr: TrEMBL; Wp: WORMPEP; Information
on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep
This sequence
was generated from part of bacterial clone contigs of human
chromosome 6, constructed by the Sanger Centre Chromosome 6 Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr6
RP4-579A14 is from the library RPC1-4 constructed at the Roswell
Park Cancer Institute by the group of Pieter de Jong. For further
details see http://bacpac.med.buffalo.edu/
VECTOR: pCYPAC2
IMPORTANT: This sequence is not the entire insert of clone
RP4-579A14. It may be shorter because we sequence overlapping
sections only once, except for a 100 base overlap.
The true left end of clone RP4-579A14 is at 1 in this sequence. The
true left end of clone RP1-230L10 is at 88458 in this sequence. The
true right end of clone RP5-826L7 is at 60956 in this sequence.
Location/Qualifiers

```

FEATURES

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1. .88557
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="6"
/clone="RP4-579A14"
/clone_id="RPCI-4"
778. .1087
/note="AluY repeat: matches 1. .305 of consensus"
repeat_region
1795. .1850
/note="14 copies 4 mer tata 83% conserved"
repeat_region
1853. .1884
/note="16 copies 2 mer at 87% conserved"
repeat_region
1901. .2184
/note="AluSg repeat: matches 1. .284 of consensus"
repeat_region
2380. .2991
/note="36 copies 17 mer 80% conserved"
repeat_region
4022. .4061
/note="MIR repeat: matches 204. .243 of consensus"
repeat_region
4062. .4247
/note="MERSA repeat: matches 1. .189 of consensus"
repeat_region
4248. .4357
/note="MIR repeat: matches 94. .204 of consensus"
repeat_region
4544. .4676
/note="7 copies 19 mer 88% conserved"
repeat_region
4680. .4831
/note="8 copies 19 mer 89% conserved"
repeat_region
5642. .6058
/note="MSTB repeat: matches 1. .426 of consensus"
repeat_region
6319. .6326
/note="1318 bases of transposon Tn10 (J01829) removed here. This sequence represents the duplicated flanking sequence of the transposon."
7142. .7177
/note="9 copies 4 mer acac 88% conserved"
repeat_region
7337. .7538
/note="HAL1 repeat: matches 700. .906 of consensus"
repeat_region
8006. .8248
/note="AluSx repeat: matches 40. .280 of consensus"
repeat_region
8253. .8684
/note="MLT1C repeat: matches 22. .455 of consensus"
repeat_region
8732. .9214
/note="L1PA13 repeat: matches 5663. .6149 of consensus"
repeat_region
10302. .10348
/note="MERS1A repeat: matches 120. .166 of consensus"
repeat_region
10349. .10724
/note="MSTB repeat: matches 1. .426 of consensus"
repeat_region
10732. .11084
/note="MLT1A1 repeat: matches 1. .365 of consensus"
repeat_region
11085. .11195
/note="MERS1A repeat: matches 1. .114 of consensus"
repeat_region
11489. .11873
/note="MERS7B repeat: matches 1. .403 of consensus"
repeat_region
12045. .12287
/note="AluSx repeat: matches 1. .242 of consensus"
repeat_region
12836. .13137
/note="AluSx repeat: matches 1. .303 of consensus"
repeat_region
13782. .14092
/note="AluY repeat: matches 1. .311 of consensus"
repeat_region
14290. .14600
/note="AluSx repeat: matches 1. .312 of consensus"
repeat_region
14841. .15132
/note="AluSg repeat: matches 1. .290 of consensus"
repeat_region
15665. .15962
/note="AluSx repeat: matches 1. .295 of consensus"
repeat_region
16080. .16559
/note="L1MC/D repeat: matches 5319. .5572 of consensus"
repeat_region
16793. .17160
/note="MERS90 repeat: matches 176. .575 of consensus"
repeat_region
17161. .17285
/note="MSTB repeat: matches 1. .130 of consensus"
repeat_region
17286. .17448
/note="MERS90 repeat: matches 32. .202 of consensus"

repeat_region
19375. .19574
/note="100 copies 2 mer at 86% conserved"
repeat_region
19387. .19574
/note="2 copies 94 mer 87% conserved"
repeat_region
19577. .19847
/note="AluSx repeat: matches 1. .281 of consensus"
misc_feature
19798. .20271
/note="match: GSS: Em:AQ338425"
repeat_region
20076. .20587
/note="MLT1D repeat: matches 1. .498 of consensus"
misc_feature
21276. .22113
/evidence="not experimental"
repeat_region
21445. .21527
/note="MLT1A1 repeat: matches 405. .501 of consensus"
repeat_region
22372. .22666
/note="AluSg repeat: matches 1. .307 of consensus"
repeat_region
22796. .23027
/note="L2 repeat: matches 2425. .2664 of consensus"
repeat_region
23896. .24202
/note="MLT1F repeat: matches 228. .541 of consensus"
repeat_region
24203. .24563
/note="MERSB repeat: matches 1. .362 of consensus"
repeat_region
24564. .24793
/note="MLT1F repeat: matches 1. .228 of consensus"
repeat_region
26108. .26267
/note="40 copies 4 mer tctg 65% conserved"
repeat_region
26109. .26268
/note="80 copies 2 mer gt 65% conserved"
repeat_region
26281. .26516
/note="59 copies 4 mer tctg 71% conserved"
repeat_region
26282. .26563
/note="3 copies 94 mer 73% conserved"
repeat_region
26284. .26517
/note="117 copies 2 mer gt 71% conserved"
repeat_region
27297. .27445
/note="MIR repeat: matches 40. .190 of consensus"
repeat_region
28272. .28443
/note="MIR repeat: matches 16. .208 of consensus"
repeat_region
29218. .29413
/note="MERS8A repeat: matches 1. .191 of consensus"
repeat_region
29407. .29520
/note="6 copies 19 mer 68% conserved"
repeat_region
29414. .29497
/note="21 copies 4 mer cttt 85% conserved"
repeat_region
29415. .29504
/note="45 copies 2 mer tt 71% conserved"
repeat_region
29431. .29515
/note="5 copies 17 mer 80% conserved"
repeat_region
29522. .29811
/note="AluSg repeat: matches 7. .295 of consensus"
misc_feature
29821. .29870
/note="match: GSS: Em:AQ894713"
repeat_region
30089. .30632
/note="MERS8A repeat: matches 175. .224 of consensus"
misc_feature
32008. .32314
/note="match: GSS: Em:AQ118912"
repeat_region
32331. .32394
/note="AluY repeat: matches 1. .306 of consensus"
repeat_region
32521. .32918
/note="16 copies 4 mer agag 82% conserved"
repeat_region
33902. .34206
/note="MLT1H repeat: matches 112. .532 of consensus"
repeat_region
34277. .34569
/note="AluY repeat: matches 1. .305 of consensus"
repeat_region
34594. .34840
/note="AluY repeat: matches 7. .297 of consensus"
repeat_region
35170. .35464
/note="MLT1A1 repeat: matches 308. .568 of consensus"
repeat_region
35465. .35756
/note="AluSc repeat: matches 4. .295 of consensus"
```

```

repeat_region      35757..35822
                    /note="MT1A1 repeat: matches 1..65 of consensus"
repeat_region      37089..37176
                    /note="MER5A repeat: matches 97..187 of consensus"
repeat_region      37728..37832

Query Match      94.4%; Score 17; DB 9; Length 88557;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GCTGTCACCTGTTA 18
        |||||
Db      67152 GCTGTCACCTGTTA 67136

RESULT 4
LOCUS      AP006146      107979 bp      DNA      linear      PLN 19-MAR-2003
DEFINITION      Lotus japonicus genomic DNA, chromosome 3, clone:LTJ34M22, TM0282,
ACCESSION      AP006146
VERSION      AP006146.1 GI:29122785
KEYWORDS      HTG.
SOURCE      Lotus japonicus
ORGANISM      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
              Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
              rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Lotaceae;
              Lotus.

REFERENCE
AUTHORS      Kaneko, T., Asanizu, E., Kato, T., Sato, S., Nakamura, Y., and Tabata, S.
TITLE      Structural Analysis of a Lotus japonicus Genome. III. Sequence
              Features and Mapping of Sixty-two TAC Clones Which Cover the 6.7 Mb
              Regions of the Genome
JOURNAL      DNA Res. 10, 27-33 (2003)
REFERENCE
AUTHORS      Sato, S.
TITLE      Direct Submission
JOURNAL      Submitted (12-DEC-2002) Shuei Sato, Kazusa DNA Research Institute,
              Department of Plant Gene Research; 2-6-7 Kazusa-kamatari, Kisarazu,
              Chiba 252-0818, Japan (E-mail: sato@kazusa.or.jp,
              URL: http://www.kazusa.or.jp/, Tel: 81-438-52-3935 (ex. 2337),
              Fax: 81-438-52-3934)

FEATURES
source      Location/Qualifiers
              1..107979
               /organism="Lotus japonicus"
               /mol_type="genomic DNA"
               /db_xref="taxon:34305"
               /chromosome="3"
               /clone="LTJ34M22"
               /clone_1ib="JIT library"
               /note="TAC clone: TM0282"

BASE COUNT      33241 a 21293 c 19709 g 33736 t
ORIGIN
Query Match      94.4%; Score 17; DB 8; Length 107979;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GCTGTCACCTGTTA 18
        |||||
Db      1793 GCTGTCACCTGTTA 1809

RESULT 5
LOCUS      AC128140      226979 bp      DNA      linear      HTG 21-SEP-2002
DEFINITION      Rattus norvegicus clone CH230-63023, *** SEQUENCING IN PROGRESS
ACCESSION      AC128140
VERSION      AC128140.2 GI:23265194
KEYWORDS      HTG; HTGS PHASE1; HTGS DRAFT; HTGS_ENRICHED.
SOURCE      Rattus norvegicus (Norway rat)

```

```

ORGANISM
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE
AUTHORS      Muzny, D., Marie, M., Metzker, M., Lee, A., Abramson, S., Adams, C., Alder, J.,
              Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D.,
              Anylebech, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,
              Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F.,
              Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
              Bryant, N., Buhay, C., Burch, P., Butrell, K., Calderon, E.,
              Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A.,
              Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J.,
              Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
              Davila, M.L., Davis, C., Davy-Carroll, E., De Anda, C., Dederich, D.,
              Delgado, O., Denison, S., Deramo, C., Ding, Y., Dinh, H., Divya, K.,
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              Fraser, C.M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
              Gebregeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
              Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K.,
              Harvey, T., Havlak, P., Hawes, A., Henderson, N., Hernandez, J.,
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              Hollins, B., Howells, S., Hulik, S., Hume, J., Idlebird, D., Jackson, A.,
              Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
              Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
              Kowis, C., Kraft, C.L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
              Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,
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              Mawney, S., McLeod, M.P., McNeill, T.Z., Meenen, E.,
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              Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Uman, K.,
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              Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
              Williams, G., Willson, R., Wleczky, R., Wooden, H., Worley, K.,
              Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V.,
              Yu, F., Zhang, U., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von
              Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O.,
              Weinstock, G., and Gibbs, R.A.

TITLE      Direct Submission
JOURNAL      Unpublished
REFERENCE      2 (bases 1 to 226979)
AUTHORS      Worley, K.C.
TITLE      Direct Submission
JOURNAL      Submitted (19-JUL-2002) Human Genome Sequencing Center, Department
              of Molecular and Human Genetics, Baylor College of Medicine, One
              Baylor Plaza, Houston, TX 77030, USA
              3 (bases 1 to 226979)

REFERENCE      Rat Genome Sequencing Consortium.
              Direct Submission
              Submitted (21-SEP-2002) Human Genome Sequencing Center, Department
              of Molecular and Human Genetics, Baylor College of Medicine, One
              Baylor Plaza, Houston, TX 77030, USA
              On Sep 21, 2002 this sequence version replaced gi:21908739.
              The sequence in this assembly is a combination of BAC based reads
              and whole genome shotgun sequencing reads assembled using Atlas
              (http://www.hgsc.bcm.tmc.edu/projects/rat/). As a result, the
              sequence may extend beyond the ends of the clone and there may be

```

contigs that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine
Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

Project Information

Center project name: GYAP

Center clone name: CH230-63023

Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 196911 bases at least Q40

Consensus quality: 199136 bases at least Q30

Consensus quality: 200537 bases at least Q20

Estimated insert size: 209329; sum-of-contigs estimation

Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

----- NOTE: Estimated insert size may differ from sequence length
(see <http://www.hgsc.bcm.tmc.edu/docs/genbankdraftdata.html>).
NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved
* 1 224410: contig of 224410 bp in length
* 224411 224510: gap of unknown length
* 224511 226979: contig of 2469 bp in length.
Location/Qualifiers

1. 226979
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-63023"
977. 1828
/note="clone boundary
clone end:Sp6
site:ECORI
end_sequence:BH21166"
85339. 86666
/note="wgs contig"
complement[223202..224034]
misc_feature
/note="clone boundary
clone end:T7
site:ECORI
end_sequence:BH21164"
54404 a 50080 c 47417 g 49761 t 25317 others

BASE COUNT 54404 a 50080 c 47417 g 49761 t 25317 others
ORIGIN

Query Match 94.4%; Score 17; DB 2; Length 226979;

Best Local Similarity 100.0%; Pred. No. 2.9;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GCTGGTGTCTACCTGTTA 18

Db 137713 GCTGGTGTCTACCTGTTA 137697

RESULT 6
AC096132 231014 bp DNA linear HTG 10-MAY-2003
LOCUS Rattus norvegicus clone CH230-11C18,*** SEQUENCING IN PROGRESS
DEFINITION *** 2 unordered pieces.
AC096132
AC096132.6 GI:305222660
HTG: HTGS_PHASE1: HTGS_DRAFT: HTGS_ENRICHED.
KEYWORDS Rattus norvegicus (Norway rat)
SOURCE Rattus norvegicus
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE AUTHORS

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 231014)

Muzny, D., Marle, Metzger, M., Lee, Abramson, S., Adams, C., Alder, J.,

Allen, C., Allen, H., Albrooks, S., Aml, A., Anguiano, D.,

Anyadebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,

Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benhmed, F.,

Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,

Bryant, N., Bunay, C., Burch, P., Burrell, K., Calderon, E.,

Cardenas, V., Carter, K., Cavazos, I., Caesar, H., Center, A.,

Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, J.,

Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cre, A., D'Souza, L.,

Davila, M.L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,

Delgado, O., Denison, S., Deramo, C., Ding, Y., Din, H., Divya, K.,

Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Evans, K.,

Egan, A., Escotto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G.,

Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,

Fraser, C.M., Gable, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,

Gebregregis, E., Geer, K., Gill, R., Grady, M., Guerra, M., Guevara, M.,

Gunaratne, P., Haaland, M., Hamill, C., Hamilton, C., Hamilton, K.,

Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J.,

Hernandez, R., Hines, S., Hladun, S.L., Hodgson, A., Hogue, M.,

Hollins, B., Howell, S., Huylk, S., Hume, J., Idlebird, D., Jackson, A.,

Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,

Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, J., Kovar, C.,

Kows, C., Kraft, C.L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,

Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,

Lorenshew, L., Louisedge, H., Lozano, R.J., Lu, X., Ma, J.,

Maneshwari, M., Mahindarne, M., Mahmoud, M., Malloy, K., Mangum, A.,

Mangum, B., Mapa, P., Martin, K., Martin, R., Martinez, E.,

Mawhney, S., McLeod, M.P., McNeill, T.Z., Meenan, E.,

Milosevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,

Morgan, M., Morris, K., Morris, S., Muntasser, M., Murphy, M.,

Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,

Nwackelam, O., Okunolu, G., Olamunegoon, A., Pal, S., Parks, K.,

Pasternak, S., Paul, H., Perez, A., Perez, L., Frankoch, C.,

Plopper, F., Polinder, A., Popovic, D., Primus, E., Pu, L.,

Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R.,

Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F.,

River, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S.,

Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H.,

Shetty, V., Shvartsbeyn, A., Sison, I., Sitter, C.D., Smajls, D.,

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Steinle, M., Strong, R., Sutton, A., Svatek, A., Taber, P., Taylor, C.,

Taylor, T., Thomas, N., Thomas, S., Tingay, A., Trejos, Z., Umanak, K.,

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Williams, G., Willson, R., Wlezyk, R., Woden, H., Wotley, K.,

Wright, J., Wright, R., Wu, J., Yakub, S., Yen, U., Yoon, L., Yoon, V.,

Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von

Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O.,

Weinstock, G., and Gibbs, R.A.

Direct Submission

Unpublished

2 (bases 1 to 231014)

Worley, K.C.

Direct Submission

Submitted (17-SEP-2001) Human Genome Sequencing Center, Department

of Molecular and Human Genetics, Baylor College of Medicine, One

Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 231014)

Rat Genome Sequencing Consortium.

Submitted (10-MAY-2003) Human Genome Sequencing Center, Department

of Molecular and Human Genetics, Baylor College of Medicine, One

Baylor Plaza, Houston, TX 77030, USA

COMMENT

On May 10, 2003 this sequence version replaced gi:24818180.
The sequence in this assembly is a combination of BAC based reads
(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated

by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GEMO
Center clone name: CH230-11C18

----- Summary Statistics

Assembly program: Atlas 3.0
Consensus quality: 208633 bases at least Q40
Consensus quality: 212147 bases at least Q30
Consensus quality: 214386 bases at least Q20
Estimated insert size: 214070; sum-of-contigs estimation
Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

FEATURES

source

1 229193: contig of 229193 bp in length
* 229194 229293: gap of unknown length
* 229294 231014: contig of 1721 bp in length.
Location/Qualifiers

1. 231014

/organism="Rattus norvegicus"

/mol_type="genomic DNA"

/db_xref="taxon:10116"

/clone="CH230-11C18"

1. 1031

/note="wgs end _extension"

clone_end:T7"

2512_3242

/note="clone_boundary"

clone_end:T7"

site:ECORI

end sequence: BH320811"

23368_24820

/note="wgs contig"

121675_123616

/note="wgs contig"

124270_126190

/note="wgs contig"

169881_171027

/note="wgs contig"

complement(228041_228684)

/note="clone_boundary"

clone_end:Sp6

site:ECORI

end sequence: BH320830"

61558 a 48903 c 47136 g 58505 t 14912 others

BASE COUNT

ORIGIN

Query Match 94.4%; Score 17; DB 2; Length 231014;
Best Local Similarity 100.0%; Pred. No. 2.9;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGTGGTGTACCTGTT 17

DB 122048 GCGTGGTGTACCTGTT 122064

RESULT 7
AC140198
LOCUS
DEFINITION
AC140198 238552 bp DNA linear HTG 01-MAR-2003
SEQUENCE, 4 unordered pieces.

AC140198.2 GI:28626914

HTG; HTGS PHASE1; HTGS DRAFT; HTGS_FULLTOP.

Mus musculus (house mouse)

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

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REFERENCE

AUTHORS

TITLE

AC140198 238552 bp DNA linear HTG 01-MAR-2003
SEQUENCE, 4 unordered pieces.
AC140198.2 GI:28626914
HTG; HTGS PHASE1; HTGS DRAFT; HTGS_FULLTOP.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 238552)
McPherson, J.D. and Waterston, R.H.
The sequence of Mus musculus clone
Unpublished
2 (bases 1 to 238552)
McPherson, J.D. and Waterston, R.H.
Direct Submission
Submitted (23-FEB-2003) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
3 (bases 1 to 238552)
McPherson, J.D. and Waterston, R.H.
Direct Submission
Submitted (01-MAR-2003) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
On Mar 1, 2003 this sequence version replaced gi:28475433.

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu/gsc/index.shtml>
Contact: submissions@wustl.edu

----- Project Information -----
Center project name: M_BA0255C04

----- Summary Statistics -----

Sequencing vector: M13; 0%
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 236489 bases at least Q40
Consensus quality: 236878 bases at least Q30
Consensus quality: 237189 bases at least Q20
Insert size: 183000; agarose-fp
Insert size: 248898; sum-of-contigs
Quality coverage: 16.05 in Q20 bases; agarose-fp
Quality coverage: 12.12 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 2229: contig of 2229 bp in length
* 2230 2329: gap of unknown length
* 2230 28154: contig of 25825 bp in length
* 28155 28254: gap of unknown length
* 28255 98428: contig of 70174 bp in length
* 98429 98528: gap of unknown length
* 98529 238552: contig of 140024 bp in length.
Location/Qualifiers

1. 238552

/organism="Mus musculus"

/mol_type="genomic DNA"

/db_xref="taxon:10090"

/chromosome="X" /clone="RP23-255C4"

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misc_feature      28255. 98428
                  /note="assembly_name:Contig25"
misc_feature      98529. 238552
                  /note="assembly_name:Contig26"
BASE COUNT      69322 a 53309 c 49714 g 65901 t      306 others
ORIGIN
Query Match      94.4%; Score 17; DB 2; Length 238552;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      2 GCTGTGTCACCTGTTA 18
Db      155734 GCTGTGTCACCTGTTA 155750

RESULT 8
AC131614
LOCUS      AC131614      244424 bp      DNA      linear      HTG 20-NOV-2002
DEFINITION      Rattus norvegicus clone CH230-284C9, WORKING DRAFT SEQUENCE, 3
unordered pieces.
AC131614
VERSION      AC131614.3 GI:25138981
KEYWORDS      HTG: HTGS PHASE1; HTGS DRAFT; HTGS_FUZZTOP.
SOURCE      Rattus norvegicus (Norway rat)
ORGANISM      Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 244424)
Muzny,D,Marie, Metzker,M, Lee, Abramson,S, Adams,C, Alder,J,
Allen,C, Allen,H, Alsbrooks,S, Amin,A, Angiano,D,
Anyalebechi,V, Aoyagi,A, Ayodeji,M, Baca,E, Baden,H,
Baldwin,D, Bagdaranaike,D, Barber,M, Barnstead,M, Benahmed,F,
Biswal,K, Blair,D, Blankenburg,K, Blyth,P, Brown,M,
Bryant,N, Buhay,C, Burch,P, Burrell,K, Calderon,E,
Cardenas,V, Carter,K, Cavazos,I, Cesar,H, Center,A,
Chacko,J, Chavez,D, Chen,G, Chen,R, Chen,Y, Chen,Z, Chu,J,
Cleveland,C, Cockrell,R, Cox,C, Coyle,M, Cree,A, D'Souza,L,
Davila,M,L, Davis,C, Davy-Carroll,L, De Anda,C, Dederich,D,
Delgado,O, Denson,S, Deramo,C, Ding,Y, Dinu,H, Divya,K,
Draper,H, Dugan-Rocha,S, Dunn,A, Durbin,K, Duval,B, Eaves,K,
Egan,A, Escotto,M, Eugene,C, Evans,C,A, Falle,T, Fan,G,
Fernandez,S, Finley,W, Flagg,N, Forbes,L, Foster,M, Foster,P,
Fraser,C,M, Gabisi,A, Ganta,R, Garcia,A, Garner,T, Garza,M,
Gubregovis,E, Geer,K, Gill,R, Grady,M, Guerra,M, Guevara,W,
Gharatane,P, Haaland,W, Hamill,C, Hamilton,C, Hamilton,K,
Harvey,Y, Havlak,P, Hawes,A, Henderson,N, Hernandez,J,
Hernandez,R, Hines,S, Hladun,S,L, Hodgson,A, Hogue,M,
Hollins,B, Howells,S, Huliy,S, Hume,J, Idlebird,D, Jackson,A,
Jacob,B, Jacob,L, Jiang,H, Johnson,B, Johnson,R, Jollivet,A,
Karchuth,S, Kelly,S, Kelly,S, Khan,Z, King,L, Kovar,C,
Kowis,C, Kraft,C,L, Lebow,H, Levan,J, Lewis,L, Li,Z, Liu,J,
Liu,J, Liu,W, Liu,Y, London,P, Longacre,S, Lopez,J,
Lorensunewa,L, Louieged,H, Lozada,R,J, Lu,X, Ma,J,
Maheshwari,M, Mahindartine,M, Mahmood,M, Malloy,K, Mangum,A,
Mangum,B, Mapua,P, Martin,K, Martin,R, Martinez,E,
Mahoney,S, McLeod,M,P, McNeill,T,Z, Meenen,E,
Milogavljevic,A, Miner,G, Minja,E, Montemayor,J, Moore,S,
Morgan,M, Morris,K, Morris,S, Munidasa,M, Murphy,M, Nair,L,
Nankervis,C, Neal,D, Newton,N, Nguyen,N, Norris,S,
Nwaokwelen,O, Okunonu,G, Olarinpoosoon,A, Pal,S, Parks,K,
Pasternak,S, Paul,H, Perez,A, Perez,L, Plamnoch,C,
Plopper,F, Poindexter,A, Popovic,D, Primus,E, Pu,L,
Puzo,B, Quiroz,J, Rachin,E, Reeves,K, Regier,M,A, Reigh,R,
Reilly,B, Reilly,M, Ren,Y, Reuter,M, Richards,S, Riggs,F,
Rives,C, Rodkey,T, Rojas,A, Rose,M, Rose,R, Ruiz,S,J,
Sanders,M, Savery,G, Scherer,S, Scott,G, Shatsman,S, Shen,H,
Shetty,D, Shvartsbeyn,A, Sisson,I, Sitter,C,D, Smajs,D,

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TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
Steinle,M., Strong,R., Sutton,A., Svatek,A., Tabor,P., Taylor,C.,
Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Umanu,K.,
Valas,R., Vera,V., Villaseana,D., Waldron,L., Walker,B., Wang,J.,
Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
Williams,G., Willson,R., Wleczyk,R., Wooden,H., Wortley,K.,
Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhou,S., Dunn,D., von
Niederhausen,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.
Direct Submission
Unpublished
2 (bases 1 to 244424)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (25-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 244424)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (20-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 20, 2002 this sequence version replaced gi:23195985.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: KCCL
Center clone name: CH230-284C9
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 22132 bases at least Q40
Consensus quality: 22413 bases at least Q30
Consensus quality: 225930 bases at least Q20
Estimated insert size: 226559; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 235352: contig of 235352 bp in length
* 235353 235452: gap of unknown length
* 235453 240268: contig of 4816 bp in length
* 240269 2440368: gap of unknown length
* 240369 244424: contig of 4056 bp in length.
Location/Qualifiers
1. 244424
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
FEATURES
source

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misc_feature      1249..2544
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clone_end:T7"
misc_feature      complement(3470..4259)
                  /note="clone_boundary
clone_end:T7
                  site:
end_sequence:RXAHE177GB"
BASE COUNT      56117 a 54386 c 56712 g 59935 t 17274 others
ORIGIN
Query Match      94.4%; Score 17; DB 2; Length 244424;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GCGGAGTCACTGCTTA 18
Db      203097 GCTGCTGTCACCTGTTA 203113

RESULT 9
AC123215/c
LOCUS      AC123215
DEFINITION  Rattus norvegicus clone CH230-118B7, *** SEQUENCING IN PROGRESS
AC123215
VERSION     AC123215.3 GI:23265875
KEYWORDS    HTG: HTGS PHASE2; HTGS_DRAFT; HTGS_ENRICHED.
SOURCE      Rattus norvegicus (Norway rat)
ORGANISM    Rattus norvegicus
            Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
            Rattus.
            1 (bases 1 to 244636)
Muzny,D,Marie, Metzker,M, Lee, Abramson, S., Adams, C., Alder, J.,
Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D.,
Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,
Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F.,
Bryant, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E.,
Cardenas, V., Carter, K., Cavazos, I., Cesar, H., Center, A.,
Chacko, J., Chavez, D., Chen, G., Chen, Y., Chen, Z., Chu, J.,
Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
Davila, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,
Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K.,
Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G.,
Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,
Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
Gebreygeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, K.,
Harvey, R., Havlak, P., Hawes, A., Henderson, N., Hernandez, J.,
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Hollins, B., Howells, S., Huily, S., Hume, J., Idlebird, D., Jackson, A.,
Jackson, B., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolyet, A.,
Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kover, C.,
Kowls, C., Kraft, C. L., Lebow, H., Levan, Z., Lewis, L., Li, Z., Liu, J.,
Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,
Lorensuwa, L., Louieged, H., Lozano, R. J., Lu, X., Ma, J.,
Maheshwari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, A.,
Mangum, B., Mapa, P., Martin, K., Martin, R., Martinez, E.,
Mawhney, S., McLeod, M. P., McNeill, T. Z., Meenan, E.,
Miloajevic, A., Miner, G., Minty, E., Montemayor, J., Murphy, M., Nair, L.,
Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,
Nwakoelamen, O., Okwuonu, G., Olarunpusagoon, A., Pal, S., Parks, K.,
Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C.,
Plodper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L., -L.,
Puzo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R.,

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TITLE
JOURNAL
AUTHORS
TITILE
JOURNAL
REFERENCE
JOURNAL
COMMENT
REFERENCE
AUTHORS
TITILE
JOURNAL
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
Project Information
Center project name: GSCP
Center clone name: CH230-118B7
----- Summary Statistics -----
Assembly program: Phrap version 0.990329
Consensus quality: 223663 bases at least Q40
Consensus quality: 225326 bases at least Q30
Consensus quality: 226426 bases at least Q20
Estimated insert size: 241958; sum-of-contigs estimation
Quality coverage: 4x in Q20 bases; sum-of-contigs estimation
----- NOTE -----
* NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
consists of 1 contigs. Gaps between the contigs
are represented as runs of N. The order of the pieces
is believed to be correct as given, however the sizes
of the gaps between them are based on estimates that have
been provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
the accession number will be preserved.
1 244636: contig of 244636 bp in length.
Location/Qualifiers
1..244636
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-118B7"
1034..1835
/note="clone_boundary
clone_end:Sp6

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misc_feature      site:ECORI
                  end sequence: BH285202"
                  complement(244009..244636)
                  /note="Clone_boundary
                  clone_end:17
                  site:ECORI
                  end sequence: BH285200"
BASE COUNT      62840 a 49128 c 49531 g 65556 t 17581 others
ORIGIN
Query Match      94.4%; Score 17; DB 2; Length 244636;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GGCTGTGTCTACCTGTT 17
45298 GGCTGTGTCTACCTGTT 45282

RESULT 10
AC103080/c
LOCUS
DEFINITION      Rattus norvegicus clone CH230-22501, WORKING DRAFT SEQUENCE, 5
unordered pieces.
AC103080
AC103080.6 GI:30579747
HTG: HTGS PHASE1: HTGS DRAFT: HTGS FULLTOP.
Rattus norvegicus (Norway rat)
Rattus norvegicus
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 248793)
Muzny,D,Marle,M, Metzker,M, Lee, A, Abramson,S, Adams,C, Alder,J,
Allen,C, Allen,H, H, Aisbrooks,S, Amin,A, Anguiano,D,
Ayala-Becchi,V, Aoyagi,A, Ayodeji,M, Baca,E, Baden,H,
Baldwin,D, Bandaranaike,D, Barber,M, Barnstead,M, Benahmed,F,
Biswal,K, Blair,J, Blankenburg,K, Blyth,P, Brown,M,
Bryan,N, Buhay,C, Burch,P, Burrell,K, Calderon,E,
Cardenas,V, Carter,K, Cavazos,I, Caesar,H, Center,A,
Chacko,J, Chavez,D, Chen,G, Chen,R, Chen,Y, Chen,Z, Chu,J,
Cleveland,C, Cockrell,R, Cox,C, Coyle,M, Cree,A, D'Souza,L,
Davila,M,L, Davis,C, Davy-Carroll,L, De Anda,C, Dederich,D,
Delgado,O, Denson,S, Deramo,C, Ding,Y, Dinh,H, Dittus,K,
Draper,H, Dugan-Rocha,S, Dunn,A, Durbin,K, Duval,B, Eaves,K,
Egan,A, Escotto,M, Eugene,C, Evans,C,A, Falle,T, Fan,G,
Fernandez,S, Finley,M, Flagg,N, Forbes,L, Foster,M, Foster,P,
Fraser,C,M, Gabisi,A, Ganta,R, Garcia,A, Garner,T, Garza,M,
Gibbs,G, Gier,K, Gill,R, Grady,M, Guerra,W, Guevara,W,
Gunaratne,P, Healand,W, Hamli,C, Hamilton,C, Hamilton,K,
Harvey,Y, Havlak,P, Hawes,A, Henderson,N, Hernandez,J,
Herrnstein,R, Hines,S, Hladun,S,L, Hodgson,A, Hogues,M,
Hollins,B, Howell,S, Huylk,S, Hume,J, Idelbird,D, Jackson,A,
Jackson,L, Jacob,L, Jiang,H, Johnson,B, Johnson,R, Jolivet,A,
Karpathy,S, Kelly,S, Kelly,S, Khan,Z, King,L, Kovar,C,
Kowis,C, Kraft,C,L, Lebow,H, Levan,J, Lewis,L, Li,Z, Liu,J,
Liu,J, Liu,W, Liu,Y, London,P, Longacre,S, Lopez,J,
Lorensunewa,L, Louissegh,H, Lozada,R,J, Lu,X, Ma,J,
Maheshwari,M, Mahindartne,M, Mahmoud,M, Malloy,K, Mangum,A,
Mangum,B, Mapa,P, Martin,K, Martin,R, Martinez,E,
Mahoney,S, McLeod,M,P, McNeill,T,Z, Meenen,E,
Milošavljević,A, Miner,G, Minja,E, Montemayor,J, Moore,S,
Morgan,M, Morris,K, Morris,S, Munidasa,M, Murphy,M, Nair,L,
Nankervis,C, Neal,D, Newton,N, Nguyen,N, Norris,S,
Nwaokoleh,O, Okwunonu,G, Olarinmusa,O, Pal,S, Parks,K,
Pasternak,S, Paul,H, Perez,A, Perez,L, Pfannkuch,C,
Plopper,F, Poindexter,A, Popovic,D, Primus,E, Pu,L-L,
Puzos,M, Quiroz,J, Rachin,E, Reeves,K, Regier,M,A, Reigh,R,
Riley,B, Riley,M, Ren,Y, Reuter,M, Richards,S, Riggs,F,
Rivers,C, Rodkey,T, Rojas,A, Rose,M, Rose,R, Ruiz,S,J,
Sanders,M, Savery,G, Scherer,S, Scott,G, Shatsman,S, Shen,H,
Shetty,J, Shvartsbeyn,A, Sisson,I, Sitter,C,D, Smaj,D,
Sneed,A, Sodergren,E, Song,X-Z, Sorelle,R, Sosa,J,

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TITLE
JOURNAL
AUTHORS
Worley,K.C.
DIRECT SUBMISSION
Submitted (24-NOV-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 248793)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (13-MAY-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On May 13, 2003 this sequence version replaced gi:23123516.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GJBC
Center clone name: CH230-22501
----- Summary Statistics
Assembly program: Atlas 3.0:
Consensus quality: 213558 bases at least Q40
Consensus quality: 215685 bases at least Q30
Consensus quality: 217422 bases at least Q20
Estimated insert size: 218947; sum-of-contigs estimation
Quality coverage: 8x in Q20 bases; sum-of-contigs estimation
-----
NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
NOTE: This is a 'working draft' sequence. It currently
consists of 5 contigs. The true order of the pieces
is not known and their order in this sequence record is
arbitrary. Gaps between the contigs are represented as
runs of N, but the exact sizes of the gaps are unknown.
This record will be updated with the finished sequence
as soon as it is available and the accession number will
be preserved.
1 243312: contig of 243312 bp in length
243313 243412: gap of unknown length
243413 244623: contig of 1211 bp in length
244624 244723: gap of unknown length
244724 245933: contig of 1210 bp in length
245934 246033: gap of unknown length
246034 247253: contig of 1220 bp in length
247254 247353: gap of unknown length
247354 248793: contig of 1440 bp in length.
248793: contig of 1440 bp in length.
1. 248793
Location/Qualifiers

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FEATURES
source

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/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-22501"
1998.2816
/note="clone_boundary
clone end:17
site:ECORI
end_sequence:B2113888"
complement(241014.241843)
/note="clone_boundary
clone end:Sp6
site:ECORI
end_sequence:82113889"
BASE COUNT 59791 a 53488 c 51802 g 54201 t 29511 others
ORIGIN
misc_feature

/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-22501"
1998.2816
/note="clone_boundary
clone end:17
site:ECORI
end_sequence:B2113888"
complement(241014.241843)
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clone end:Sp6
site:ECORI
end_sequence:82113889"
BASE COUNT 59791 a 53488 c 51802 g 54201 t 29511 others
ORIGIN
misc_feature

Query Match 94.4%; Score 17; DB 2; Length 248793;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GCTGGTGTCACTGTGTTA 18
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183996 GCTGGTGTCACTGTGTTA 183980

RESULT 11
LOCUS 126102 20 bp. DNA
DEFINITION Sequence 28 from patent US 556772.
ACCESSION 126102
VERSION 126102.1 GI:1605972
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Sorge,J.A. and Mullinax,R.L.
TITLE Polymerase-compositions-and-uses-thereof
JOURNAL Patent: US 556772-A 28 17-SEP-1996;
FEATURES
source 1..20
/organism="unknown"
BASE COUNT 2 a 4 c 7 g 7 t
ORIGIN
Query Match 88.9%; Score 16; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTCACTGT 16
|||||
Db 1 GGCTGGTGTCACTGT 16

RESULT 12
LOCUS AR032934 50 bp. DNA
DEFINITION Sequence 546 from patent US 5869241.
ACCESSION AR032934
VERSION AR032934.1 GI:5948539
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 50)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Method of determining DNA sequence preference of a DNA-binding molecule.
JOURNAL Patent: US 5869241-A 546 09-FEB-1999;
FEATURES
location/Qualifiers
1..50
/organism="unknown"

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ORIGIN	BASE COUNT	18 a	14 c	10 g	8 t
Query Match	88.9%; Score 16; DB 6; Length 50;				
Best Local Similarity	100.0%; Pred. No. 16;				
Matches	16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
QY	1 GGCTGGTGTACCTGT 16				
DB	41 GGCTGGTGTACCTGT 26				
RESULT 13					
LOCUS	AR209598	50 bp			
DEFINITION	Sequence 546 from patent US 6384208.				
ACCESSION	AR209598				
VERSION	AR209598.1				
KEYWORDS	GI:21511065				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 50)				
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.				
TITLE	Sequence directed DNA binding molecules compositions and methods				
JOURNAL	Patent: US 6384208-A 546 07-MAY-2002;				
FEATURES	Location/Qualifiers				
source	1..50				
BASE COUNT	18 a 14 c 10 g 8 t				
ORIGIN	/organism="unknown"				
Query Match	88.9%; Score 16; DB 6; Length 50;				
Best Local Similarity	100.0%; Pred. No. 16;				
Matches	16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
QY	1 GGCTGGTGTACCTGT 16				
DB	41 GGCTGGTGTACCTGT 26				
RESULT 14					
LOCUS	I29674	50 bp			
DEFINITION	Sequence 546 from patent US 5578444.				
ACCESSION	I29674				
VERSION	I29674.1				
KEYWORDS	GI:1820465				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 50)				
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.				
TITLE	Sequence-directed DNA-binding molecules compositions and methods				
JOURNAL	Patent: US 5578444-A 546 26-NOV-1996;				
FEATURES	Location/Qualifiers				
source	1..50				
BASE COUNT	18 a 14 c 10 g 8 t				
ORIGIN	/organism="unknown"				
Query Match	88.9%; Score 16; DB 6; Length 50;				
Best Local Similarity	100.0%; Pred. No. 16;				
Matches	16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
QY	1 GGCTGGTGTACCTGT 16				
DB	41 GGCTGGTGTACCTGT 26				
RESULT 15					
LOCUS	I91348	50 bp			
DEFINITION	Sequence 546 from patent US 5578444.				
ACCESSION	I91348				
VERSION	I91348.1				
KEYWORDS	GI:1820465				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 50)				
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.				
TITLE	Sequence-directed DNA-binding molecules compositions and methods				
JOURNAL	Patent: US 5578444-A 546 26-NOV-1996;				
FEATURES	Location/Qualifiers				
source	1..50				
BASE COUNT	18 a 14 c 10 g 8 t				
ORIGIN	/organism="unknown"				
Query Match	88.9%; Score 16; DB 6; Length 50;				
Best Local Similarity	100.0%; Pred. No. 16;				
Matches	16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
QY	1 GGCTGGTGTACCTGT 16				
DB	41 GGCTGGTGTACCTGT 26				
RESULT 16					
LOCUS	I91348	50 bp			
DEFINITION	Sequence 546 from patent US 5578444.				
ACCESSION	I91348				
VERSION	I91348.1				
KEYWORDS	GI:1820465				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 50)				
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.				

DEFINITION Sequence 546 from patent US 5726014.
ACCESSION 191348
VERSION 191348.1 GI:3935818
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 50)
AUTHORS Edwards, C.A., Cantor, C.R., Andrews, B.M. and Turin, L.M.
TITLE Screening assay for the detection of DNA-binding molecules
JOURNAL Patent: US 5726014-A 546 10-MAR-1998;
FEATURES
source Location/Qualifiers
BASE COUNT 18 a 14 c 10 g 8 t
ORIGIN
Query Match 88.9%; Score 16; DB 6; Length 50;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGT 16
Db 41 GGCTGGTGCACCTGT 26
RESULT 16
BD025521/c 435 bp DNA linear PAT 27-AUG-2002
LOCUS
DEFINITION Sequence tag and encoded human protein.
ACCESSION BD025521
VERSION BD025521.1 GI:22566744
KEYWORDS JP 2001269182-A/1767.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 435)
AUTHORS Edwards, J.B.D.M., Duclair, E. and Jordan, J.Y.
TITLE Sequence tag and encoded human protein.
JOURNAL Patent: JP 2001269182-A 1767 02-OCT-2001;
COMMENT
GENSET
OS Homo sapiens (human)
PN JP 2001269182-A/1767
PD 02-OCT-2001
PR 24-FEB-2000 JP 2000118773
PR 26-FEB-1999 US 60/122487
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, EIMERIC DUCLAIR, JEAN YVES
PI JORDAN
PC C12N15/09, C07K14/435, C07K16/18, C12N1/15, C12N1/19, C12N1/21, PC
C12N5/10,
PC C12P21/02, C12P21/08, C12Q1/68//G06F17/30, C12N15/00, C12N5/00, PC
G06F15/40
CC
FH Key Location/Qualifiers
FT CDS 60..434.
1..435 Location/Qualifiers
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

RESULT 17
AX321046 455 bp DNA linear PAT 15-DEC-2001
LOCUS
DEFINITION Sequence 63 from Patent WO0177168.
ACCESSION AX321046
VERSION AX321046.1 GI:17904325
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Lodes, M.J., Wang, T., Mohamath, R. and Indrias, C.Y.
TITLE Compositions and methods for the therapy and diagnosis of lung cancer
JOURNAL Patent: WO 0177168-A 63 18-OCT-2001;
CORIXA CORPORATION (US)
FEATURES
source Location/Qualifiers
BASE COUNT 122 a 116 c 138 g 78 t 1 others
ORIGIN
Query Match 88.9%; Score 16; DB 6; Length 455;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGT 16
Db 177 GGCTGGTGCACCTGT 162
RESULT 18
BT006889 963 bp mRNA linear PRI 13-MAY-2003
LOCUS
DEFINITION Homo sapiens eukaryotic translation initiation factor 3, subunit 4
delta, 44kDa mRNA, complete cds.
ACCESSION BT006889
VERSION BT006889.1 GI:30582616
KEYWORDS FLI_CDN.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 963)
AUTHORS Kalline, N., Chen, X., Rolfs, A., Halleck, A., Hines, L., Eisenstein, S.,
Kouindya, M., Raphael, J., Moreira, D., Kelley, T., Labaer, J., Lin, Y.,
Phelan, M. and Farmer, A.
TITLE Cloning of human full-length CDS in BD Creator(TM) System Donor
vector
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 963)
AUTHORS Kalline, N., Chen, X., Rolfs, A., Halleck, A., Hines, L., Eisenstein, S.,
Kouindya, M., Raphael, J., Moreira, D., Kelley, T., Labaer, J., Lin, Y.,
Phelan, M. and Farmer, A.
TITLE Direct Submission
JOURNAL Submitted (13-MAY-2003) BD Biosciences Clontech, 1020 East Meadow
Circle, Palo Alto, CA 94303, USA
COMMENT
This CDS clone is a part of a collection of human full length
expression clones generated by BD Biosciences Clontech and the
Harvard Institute of Proteomics. Each CDS has been cloned in two
forms: with and without stop-codon (to allow fusion with C-terminal
tag). The CDS has been directionally cloned using BD In-Fusion(TM)
vector. Additional sequences in the clone: 'ACC' after SalI site
and before 'ATG' to provide Kozak consensus sequence; 'GG' after
last codon and before HindIII site to maintain reading frame.
clone distribution: <http://bioinfo.clontech.com/orfclones>.
FEATURES
source Location/Qualifiers
1..963
/organism="Homo sapiens"

3

CDS

/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="GH00457X1.0"
/clone_1lb="BD Creator(TM) CDS library derived from MGC
collection"
/lab_host="DH5alpha T1 resistant"
/note="Vector: pDNR-Dual1"
1..963
/codon_start=1
/product="eukaryotic translation initiation factor 3,
subunit 4 delta, 44kDa"
/protein_id="AAP35535.1"
/db_xref="GI:30582617"
/translation="MPTGDFDSKPSWADQVEEEDDKCVTSLLKGIPLATGDTSP
PELLGAPLPPEPKVINGNIKTVEYKIDEDKKFKIVFRIETRKAKAVARRKM
KRGNSERPDPGNVATTVSDVSWTFITSKEDLNCOEEDPMNLKQKIVSCIC
KEDHWTRCPYKDTLGPQKELAEOLGISTGKERKLPGELEPVQATONTKGVPPSL
RGSARRGSMQPNRRADDNATIRVNLSEDTRETDLOELFRFGSISRILAKDKTT
GOSKGFAPISFHRREDAPARAIAGVSGFGDHLILNVMAKPSSTN"

BASE COUNT 237 a 291 c 288 g 147 t

ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 963;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGCACCTGT 16
|||||

Db 127 GGCTGGTGCACCTGT 112

RESULT 19
BT007572/c 963 bp mRNA linear SYN 13-MAY-2003

LOCUS
DEFINITION
Synthetic construct Homo sapiens eukaryotic translation initiation
factor 3, subunit 4 delta, 44kDa mRNA, partial cds.
BT007572
ACCESSION
BT007572.1 GI:30583982
VERSION
KEYWORDS
FLI CDNA.
SOURCE
synthetic construct
ORGANISM
synthetic construct
REFERENCE
1 (bases 1 to 963)
Kalinine,N., Chen,X., Rolfs,A., Halleck,A., Hines,L., Eisenstein,S.,
Koudinya,M., Raphael,J., Moreira,D., Kelley,T., Labaer,J., Lin,Y.,
Phelan,M., and Farmer,A.
Cloning of human full-length cDNAs in BD Creator(TM) System Donor
vector
TITLE
Unpublished
JOURNAL
2 (bases 1 to 963)
Kalinine,N., Chen,X., Rolfs,A., Halleck,A., Hines,L., Eisenstein,S.,
Koudinya,M., Raphael,J., Moreira,D., Kelley,T., Labaer,J., Lin,Y.,
Phelan,M., and Farmer,A.
Direct Submission
COMMENT
Submitted (13-MAY-2003) BD Biosciences Clontech, 1020 East Meadow
Circle, Palo Alto, CA 94303, USA
This CDS clone is a part of a collection of human full length
expression clones generated by BD Biosciences Clontech and the
Harvard Institute of Proteomics. Each CDS has been cloned in two
forms: with and without stop-codon (to allow fusion BD in-Fusion(TM)
tag). The CDS has been directionally cloned using BD in-Fusion(TM)
cloning system between the SalI and HindIII sites of the pDNR-DUAL
vector. Additional sequences in the clone: 'ACC' after SalI site
and before 'ATG' to provide Kozak consensus sequence; 'GG' after
last codon and before HindIII site to maintain reading frame.
Clone distribution: <http://bioinfo.clontech.com/orfclones>.
location/Qualifiers
1..963
/organism="synthetic construct"
/mol_type="mRNA"
/db_xref="taxon:32630"
/clone="GH00457X1.0"
/clone_1lb="BD Creator(TM) CDS library derived from MGC

FEATURES
source

CDS

collection"
/lab_host="DH5alpha T1 resistant"
/note="Vector: pDNR-Dual1"
1..>963
/note="Mutations: 962:Stop->Leu"
/codon_start=1
/transl_table=11
/product="Homo sapiens eukaryotic translation initiation
factor 3, subunit 4 delta, 44kDa"
/protein_id="AAP36240.1"
/db_xref="GI:30583983"
/translation="MPTGDFDSKPSWADQVEEEDDKCVTSLLKGIPLATGDTSP
PELLGAPLPPEPKVINGNIKTVEYKIDEDKKFKIVFRIETRKAKAVARRKM
KRGNSERPDPGNVATTVSDVSWTFITSKEDLNCOEEDPMNLKQKIVSCIC
KEDHWTRCPYKDTLGPQKELAEOLGISTGKERKLPGELEPVQATONTKGVPPSL
RGSARRGSMQPNRRADDNATIRVNLSEDTRETDLOELFRFGSISRILAKDKTT
GOSKGFAPISFHRREDAPARAIAGVSGFGDHLILNVMAKPSSTN"

BASE COUNT 236 a 291 c 288 g 148 t

ORIGIN

Query Match 88.9%; Score 16; DB 12; Length 963;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGCACCTGT 16
|||||

Db 127 GGCTGGTGCACCTGT 112

RESULT 20
104174/c 104174 bp ss-DNA linear PAT 21-MAY-1993

LOCUS
DEFINITION
Sequence 3 from Patent US 4707358.
104174
ACCESSION
104174.1 GI:268757
VERSION
KEYWORDS
Unknown.
SOURCE
Unknown.
ORGANISM
Unknown.
REFERENCE
1 (bases 1 to 1041)
Kieff,E., Tanner,J., Hummel,M., and Beisel,C.
Vaccine against Epstein-Barr Virus
Patent: US 4707358-A 3 17-NOV-1987;
JOURNAL
The University of Chicago; Chicago, IL
location/Qualifiers
1..1041
/organism="unknown"

BASE COUNT 295 a 383 c 199 g 164 t

ORIGIN

Query Match 88.9%; Score 16; DB 6; Length 1041;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCTGGTGCACCTGT 16
|||||

Db 444 GGCTGGTGCACCTGT 429

RESULT 21
AF020833/c 1103 bp mRNA linear PRI 02-MAR-1999

LOCUS
DEFINITION
Homo sapiens eukaryotic translation initiation factor 3 subunit
(p42) mRNA, complete cds.
AF020833
ACCESSION
AF020833.1 GI:2460199
VERSION
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
REFERENCE
1 (bases 1 to 1103)
Bandyopadhyay,A. and Maitra,U.

FEATURES
source

```

TITLE      Cloning and characterization of the p42 subunit of mammalian
            translation initiation factor 3 (eIF3): demonstration that eIF3
            interacts with eIF5 in mammalian cells
JOURNAL    Nucleic Acids Res. 27 (5), 1331-1337 (1999)
MEDLINE    99141230
PUBMED     9973622
REFERENCE  2 (bases 1 to 1103)
AUTHORS    Bandyopadhyay,A., Chaudhuri,U., Si,K., Tempst,P. and Maitra,U.
TITLE      Direct Submission
JOURNAL    Submitted (26-AUG-1997) Dev. & Molecular Biol., Albert Einstein
            College of Medicine of Yeshiva University, 1300, Morris Park
            Avenue, Bronx, NY 10461, USA
FEATURES   Location/Qualifiers
            source
              1..1103
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /cell_line="HeLa"
              1..1103
                /gene="p42"
                /gene="p42"
                24..986
                /gene="p42"
                /note="Similar to WP.F22B5.2 CE02197 RNA binding protein"
                /codon_start=1
                /product="eukaryotic translation initiation factor 3
                subunit"
                protein_id="AAB71866.1"
                /db_xref="GI:246020"
                /translation="MPTGDFDSKSPSWADVEEGBDKCVTSLLKGIPLATGDTSPSP
                PELLGAPLPPEKVIYNGNIKVTVEYKIDEDGKKPKIVTRERIKASKAVARKNM
                KKPSNRPDPGPVATTTVDVSMPTSTGKDLNCOEEDPMNKLKGOKIVSCRIG
                KGDHHTTRCPKPDLTGLPMQKLAEDLGISTEKELPDELPEVATQNTGKTYPPSL
                RDGASRRGSMQPNRRADNATVNTVLSBTRFDLQELRPFGSISRTYLAQDKTT
                GQSGKFAFISFHRBDARALAGVSGFGYDHLINVEWAKPSTN"
BASE COUNT      280 a      332 c      324 g      167 t
ORIGIN
Query Match      88.9%; Score 16; DB 9; Length 1103;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 GGCTGGTCACTCT 16
        |||||
Db      150 GGCTGGTCACTCT 135

RESULT 22
LOCUS      HSU96074.c      1115 bp      mRNA      linear      PRI 24-NOV-1998
DEFINITION Human translation initiation factor eIF3 p44 subunit mRNA, complete
            cds.
ACCESSION  U96074
VERSION    U96074.1
KEYWORDS   GI:3264858
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1. (bases 1 to 1115)
            Block,K.L., Vorniocher,H.P. and Hershey,J.W.
            Characterization of cDNAs encoding the p44 and p35 subunits of
            human translation initiation factor eIF3
            J. Biol. Chem. 273 (48), 31901-31908 (1998)
JOURNAL    99041954
MEDLINE    9822659
PUBMED
REFERENCE  2 (bases 1 to 1115)
AUTHORS    Block,K.L., Vorniocher,H.-P. and Hershey,J.W.B.
TITLE      Direct Submission
JOURNAL    Submitted (01-Apr-1997) Biological Chemistry, U C Davis, Tupper
            Hall, Davis, CA 95616, USA
FEATURES   Location/Qualifiers
            1..1215
                /organism="Homo sapiens"

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CDS
      /mol_type="mRNA"
      /db_xref="taxon:9606"
      .10..972
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      /protein_id="AAC8728.1"
      /db_xref="GI:3264859"
      /translation="MPTGDPDPSKPMADQVEEGEDDKCVTSLLKGIPLATGDTSPDE
PELLRPRLPPRPEVINGNITKYTEXIDDDGGKKFKVRPERLETRASAVARRKMW
KKRNSSEFDPGPENVATTYSDVSMFTTSSKEDLNCOEEDPNNLKGOKYSRCRC
KGMHTRRCPYKDTLGPMOKEIAEQGLSTGEKEKLPGELPVQATGNKGTVPSEL
RDGSRRSGESMPNRADNAVTRVMISDTRETDQGLEFRFGSISRITYLAKDKTT
GOSGFAFISFHREDRAIRAIAGSGGVDHLILNEMAKPSTN"
BASE COUNT      305 a      328 c      318 g      164 t
ORIGIN
Query Match      88.9%; Score 16; DB 9; Length 1115;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy      1 GGCTGGTGTCACCTGT 16
          |||||||||
Db      136 GGCTGGTGTCACCTGT 121
RESULT 23
BC000733/c      1128 bp      mRNA      linear      PRI 12-JUN-2001
LOCUS      Homo sapiens, eukaryotic translation initiation factor 3, subunit 4
DEFINITION      (delta, 4kD), clone MGC:2053 IMAGE:3504640, mRNA, complete cds.
ACCESSION      BC000733
VERSION      BC000733.1 GI:12653882
KEYWORDS
SOURCE      MGC.
ORGANISM      Homo sapiens (human)
            Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      Strausberg,R.
            Direct Submissions
JOURNAL      Submitted (15-NOV-2000) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK      NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT      Contact: MGC help desk
            Email: cgabs-remail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
            DNA Sequencing by: Institute for Systems Biology
            http://www.systemsbio.org
            contact: amadan@systemsbio.org
            Anup Madan, Rachel Dickhoff, Jessica Fahey, Stephanie Ford, Julia
            Greene, Mark Ketteman and Anuradha Madan
FEATURES
source
    1..1128
        /organism="Homo sapiens"
        /mol_type="mRNA"
        /db_xref="locusid:9606"
        /db_xref="taxon:9606"
        /clone="MGC:2053 IMAGE:3504640"
        /tissue_type="Placenta, choriocarcinoma"
        /clone_lib="NIH MGC 21"
        /lab_host="DH10B-R"
        /note="vector: POTB7"
        .52..1014

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/codon_start=1
/product="eukaryotic translation initiation factor 3,
subunit 4 (delta, 44kD)"
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/protein_id="AAH08733.1"
/db_xref="GI:12653883"
/translation="MPTGDFPSKPSMAQDVEEGEDDKCVTSLLKGIPLATGDTSP
PELLGAPLPPEKVEVINGNIKTVEYKIDEDGKFKIVTFPIETPKSKAVARRNM
KKEGSEPPGPNVATTTSDVSMFTFITSKEDLNCOEEDPMNKLKQKIVSCRIC
KDDHMTTRCPYDITGPMOKELABOLGISTGKERKPGLEBPVOATONKTKYVPSL
RDCASRGESMGPNNRRADNATIRTNLSIEDTRDLOELFRPFGSISIIYLAKDXT
GOSKGFATISFRRDPAARAIAVGSGFGDHLILNVEWAKPSTN"

BASE COUNT 283 a 336 c 335 g 174 t

ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 1128;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
|||||
Db 178 GGCTGGTGCACCTGT 163

RESULT 24
BC008469/c 1138 bp mRNA linear PRI 12-JUL-2001
LOCUS BC008469
DEFINITION Homo sapiens, eukaryotic translation initiation factor 3, subunit 4
(delta, 44kD), clone MGC:14741 IMAGE:4279770, mRNA, complete cds.
ACCESSION BC008469
VERSION BC008469.1 GI:14250113
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 1138)
Strausberg, R.
Direct Submission
Submitted (25-MAY-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: CLONTECH Laboratories, Inc.
DNA Sequencing by: The I.M.A.G.E. Consortium (LNL)
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>
Series: IRIL Plate: 21 Row: e Column: 24
This clone was selected for full length sequencing because it
passed the following selection criteria: Similarity but not
identity to protein.
Location/Qualifiers
1. 1138
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:14741 IMAGE:4279770"
/tissue_type="Brain, primitive neuroectodermal"
/clone_id="NIH_MGC_56"
/lab_host="DH10B"
/note="Vector: pDNR-L1B"
44. 1006

FEATURES
source

REMARK
COMMENT

REFERENCE
AUTHORS
TITLE
JOURNAL

CDs

/codon_start=1
/product="eukaryotic translation initiation factor 3,
subunit 4 (delta, 44kD)"
/subunit_4 (delta, 44kD)
/protein_id="AAH08469.1"
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/translation="MPTGDFPSKPSMAQDVEEGEDDKCVTSLLKGIPLATGDTSP
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KKEGSEPPGPNVATTTSDVSMFTFITSKEDLNCOEEDPMNKLKQKIVSCRIC
KDDHMTTRCPYDITGPMOKELABOLGISTGKERKPGLEBPVOATONKTKYVPSL
RDCASRGESMGPNNRRADNATIRTNLSIEDTRDLOELFRPFGSISIIYLAKDXT
GOSKGFATISFRRDPAARAIAVGSGFGDHLILNVEWAKPSTN"

BASE COUNT 297 a 334 c 331 g 176 t

ORIGIN

Query Match 88.9%; Score 16; DB 9; Length 1138;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
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Db 170 GGCTGGTGCACCTGT 155

RESULT 25
BD063236/c 1142 bp DNA linear PAT 27-AUG-2002
LOCUS BD063236
DEFINITION Secreted human proteins.
ACCESSION BD063236
VERSION BD063236.1 GI:22608839
KEYWORDS JP 2001505783-A/11.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 1142)
AUTHORS Escobedo, J., Hu, Q., Garcia, P., Williams, L.T. and Kothakota, S.
TITLE Secreted human proteins
JOURNAL Patent: JP 2001505783-A 11 08-MAY-2001;
CHIRON CORP
PN JP 2001505783-A/11
PD 08-MAY-2001
PF 11-DEC-1997 JP 1998526977
PR 11-DEC-1996 US 60/032757
PI JAIME ESCOBEDO, QUINJUN HU, PABLO GARCIA, LEWIS T WILLIAMS PI
SRINIVAS KOTHAKOTA
PC C12N15/12, C12N15/62, C12N15/85, C12N5/10, C12N1/21, C07K14/47, PC
C07K16/18
CC Strandedness: Single;
CC Topology: Linear;
FH Key Location/Qualifiers
1. 1142
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

FEATURES
source

BASE COUNT 304 a 335 c 331 g 172 t

ORIGIN

Query Match 88.9%; Score 16; DB 6; Length 1142;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCTGGTGCACCTGT 16
|||||
Db 159 GGCTGGTGCACCTGT 144

RESULT 26
AF094850/c 1174 bp mRNA linear PRI 23-MAR-2001
LOCUS AF094850
DEFINITION Homo sapiens eukaryotic translation initiation factor 3 subunit
p42/p44 mRNA, complete cds.
ACCESSION AF094850
VERSION AF094850.1 GI:10280561

KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1174)
AUTHORS Chen, W., Blough, R. I., and Winkelmann, J. C.
TITLE Molecular cloning, genomic structure and chromosomal localization of a novel human RNA binding protein gene homologous to a tumor necrosis factor alpha inducible transcript in mouse
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1174)
AUTHORS Chen, W., Chu, Z., -L., Blough, R. I., Liu, L., Hoppes, B. and Winkelmann, J. C.
TITLE Direct Submission
JOURNAL Submitted (24-SEP-1998) Internal Medicine/Hematology-Oncology, University of Cincinnati College of Medicine, 231 Bethesda Ave., Cincinnati, OH 45267-0508, USA
FEATURES
source Location/Qualifiers
1. 1174
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/chromosome="19"
/map="19p13.2"
42. 1004
/note="eIF3 p42/p44"
/product="eukaryotic translation initiation factor 3 subunit p42/p44"
/protein_id="AA015419.1"
/db_xref="GI:10280562"
/translation="MPTGDFSKRPMADQVEEEDGDCVTSLLKGIPLATDTSPE PELLPGAPLPPEPKVINGNTKTEYKIDGKKFKIVRFRIETKASAVARRKM KKRNSRFPDPPGNNVATTVSDVSMFTSKXDLNCEEDDMNLKQKXISPCIK KKHWTTCRCYKDTLGMQKELABQULSTGEKPKLPGELFPAQATNRTKXVPSRL RDGASRRGSMQPNRRADNATIRVNLSDTEETDQLFRFGSISRIYLAKDKTT GSGKGFAPISFHRERDAARAIAAGVSGGYDHLINEMAKPSTN"
BASE COUNT 334 a 336 c 331 g 173 t
ORIGIN
Query Match 88.9%; Score 16; DB 9; Length 1174;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGT 16
Db 168 GGCTGGTGCACCTGT 153
RESULT 27
AF348496/c 2199 bp DNA linear PLN 21-AUG-2001
LOCUS Desmodemus pirkollei 18S ribosomal RNA gene, complete sequence.
DEFINITION AF348496
VERSION AF348496.1 GI:15216663
KEYWORDS Desmodemus pirkollei.
ORGANISM Desmodemus pirkollei.
Eukaryota; Viridiplantae; Chlorophyta; Chlorophyceae; Chlorococcales; Scenedesmeaceae; Desmodemus.
REFERENCE 1 (bases 1 to 2199)
AUTHORS Hegewald, E., Coesel, P. and Hegewald, P.
TITLE A phytoplankton collection from Bali, with description of a new Desmodemus species (Chlorophyta, Scenedesmeaceae)
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 2199)
AUTHORS Hegewald, E., Coesel, P. and Hegewald, P.
TITLE Direct Submission
JOURNAL Submitted (13-FEB-2001) Institute of Chemistry and Dynamics of the Geosphere 6, Research Center Juelich, Juelich D-52425, Germany
FEATURES
source Location/Qualifiers
1. 2199

RNA
/organism="Desmodemus pirkollei"
/mol_type="genomic DNA"
/db_xref="taxon:165818"
1. 2199
/product="18S ribosomal RNA"
BASE COUNT 572 a 465 c 593 g 569 t
ORIGIN
Query Match 88.9%; Score 16; DB 8; Length 2199;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGCACCTGT 16
Db 1393 GGCTGGTGCACCTGT 1378
RESULT 28
AF172333/c 2556 bp mRNA linear VRL 29-AUG-1999
LOCUS Human herpesvirus 4 cell-11ne SNU-1103 major outer envelope glycoprotein gp350 mRNA, complete cds.
DEFINITION AF172333
ACCESSION AF172333.1 GI:5802484
KEYWORDS Human herpesvirus 4 (Epstein-Barr virus)
ORGANISM Human herpesvirus 4
REFERENCE 1 (bases 1 to 2556)
AUTHORS Lee, W.K., Kim, S.M., Sim, Y.S., Cho, S.G., Park, S.H., Kim, C.W. and Park, J.G.
TITLE B-lymphoblastoid cell lines from cancer patients
JOURNAL In Vitro Cell. Dev. Biol. Anim. 34 (2), 97-100 (1998)
MEDLINE 98203772
PUBMED 9542645
REFERENCE 2 (bases 1 to 2556)
AUTHORS Chang, S.H., Kim, S.H., Lee, W.K., Kim, H.J., Choi, S.H., Park, J.H., Jang, H.S., Chung, G.H., Kwon, T.H., Kim, D.H., Yang, M.S. and Jang, Y.S.
TITLE Cloning and analysis of the Epstein-Barr virus glycoprotein 350 genes
JOURNAL Mol. Cells 8 (5), 585-593 (1998)
MEDLINE 99072166
PUBMED 9856346
REFERENCE 3 (bases 1 to 2556)
AUTHORS Chang, S.H., Kim, S.H., Lee, W.K., Kim, H.J., Choi, S.H., Park, J.H., Jang, H.S., Chung, G.H., Kwon, T.H., Kim, D.H., Yang, M.S. and Jang, Y.S.
TITLE Direct Submission
JOURNAL Submitted (27-JUL-1999) Faculty of Biological Sciences, Chonbuk National University, 664-14, Dukjin-dong 1-Ka, Dukjin-Ku, Chonju 561 - 756, Korea
FEATURES
source Location/Qualifiers
1. 2556
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/mol_type="mRNA"
/db_xref="taxon:10376"
/cell_line="SNU-1103"
1. 2556
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SDNSTSHMPLTSAHPTGENTITVTPASTSTHVVSTSSPAPRPGITCOASGPNSSST
PSGQTAIVPTVSTGKANSITGKHTTGARTSTPTDYGDSITPRRYNATY
TEPTDYGDSITPRRYNATYLPSTSSKLRPWTFTSPPTTAQATVPVPSQ
RNSMLVLOMASLAVITLILLLVADAPFRNLSITSTTTPPYDAETV"

BASE COUNT 713 a 798 c 532 g 513 t

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 2556;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
|||||

Db 1956 GGCTGGTGCACCTGT 1941

RESULT 29
AF172332 2661 bp mRNA linear VRL 29-AUG-1999
LOCUS Human herpesvirus 4 cell-line SNU-20 major outer envelope
DEFINITION glycoprotein gp350 mRNA, complete cds.
ACCESSION AF172332
VERSION AF172332.1 GI:5802482
KEYWORDS Human herpesvirus 4 (Epstein-Barr virus)
SOURCE Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
ORGANISM Gammaherpesvirinae; Lymphocryptovirus.
REFERENCE 1 (bases 1 to 2661)
AUTHORS Lee, W.K., Kim, S.M., Sim, Y.S., Cho, S.G., Park, S.H., Kim, C.W. and
Park, J.G.
TITLE B-lymphoblastoid cell lines from cancer patients
JOURNAL In Vitro Cell. Dev. Biol. Anim. 34 (2), 97-100 (1998)
MEDLINE 98203772
PUBMED 9542645
REFERENCE 2 (bases 1 to 2661)
AUTHORS Chang, S.H., Kim, S.H., Lee, W.K., Kim, H.J., Choi, S.H., Park, J.H.,
Jang, H.S., Chung, G.H., Kwon, T.H., Kim, D.H., Yang, M.S. and Jang, Y.S.
TITLE Cloning and analysis of the Epstein-Barr virus glycoprotein 350
JOURNAL Mol. Cells 8 (5), 585-593 (1998)
MEDLINE 99072166
PUBMED 9856346
REFERENCE 3 (bases 1 to 2661)
AUTHORS Chang, S.H., Kim, S.H., Lee, W.K., Kim, H.J., Choi, S.H., Park, J.H.,
Jang, H.S., Chung, G.H., Kwon, T.H., Kim, D.H., Yang, M.S. and Jang, Y.S.
TITLE Direct Submission
JOURNAL Submitted (27-JUL-1999) Faculty of Biological Sciences, Chonbuk
National University, 664-14, Dujin-dong 1-Ka, Dujin-Ku, Chonju
561 - 756, Korea
FEATURES
source Location/Qualifiers
1..2661
/organism="Human herpesvirus 4"
/mol_type="mRNA"
/db_xref="taxon:10376"
/cell_line="SNU-20"
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/db_xref="GI:5802483"
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SOVLPGDNKFNITSGYESHVPBGGLITSPVATPIPGYAVSLRLTPRVSRLG
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NWSIEDANPNVTVTAFMAMPNNTETDFCKWTLNSGTSGGCGENTISGAPASNTPTIT
VSGLGAPKTLITRTATNATTTTHKVIIRSKAPESSTTPTLNTTGPAPANTTGLPS
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PNATITPLTGKSTSAVTPTPNATSPPTVGETSPKANTNHTLGGTSTPTVVSPPKN
ATSAVTTGGNITSSSTSSMSLRPSSISITLSPSTSDNSMSHMLPLTSAHPTGENTIT

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LPPSTSSKLRPWTFTSPPTTAQATVPVPSQ
LVMACAPFRNLSITSTTTPPYDAETV"

BASE COUNT 752 a 844 c 542 g 523 t

ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 2661;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGCACCTGT 16
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Db 2061 GGCTGGTGCACCTGT 2046

RESULT 30
EBVBLF1A/C 2661 bp DNA linear VRL 23-OCT-1992
LOCUS Epstein-Barr virus BLF1 gene for glycoprotein 350/220.
DEFINITION X67776
ACCESSION X67776
VERSION X67776.1 GI:59163
KEYWORDS glycoprotein 350/220.
SOURCE Human herpesvirus 4 (Epstein-Barr virus)
ORGANISM Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
REFERENCE 1 (bases 1 to 2661)
AUTHORS Klein, K. and Mueller-Lantzsch, N.
TITLE Sequences of the membrane proteins gp 350/220 and p140 of
Epstein-Barr virus type-B (P3HRL)
JOURNAL Nucleic Acids Res. 2 (bases 1 to 2661)
AUTHORS Klein, K.
TITLE Direct Submission
JOURNAL Submitted (21-OCT-1992) K. Klein, Inst f Med Mikrobiologie u
Hygiene, Abteilung Virologie, Universitaetsklinik des Saarlandes,
6650 Homburg/Saar, FRG
FEATURES
source Location/Qualifiers
1..2661
/organism="Human herpesvirus 4"
/mol_type="genomic DNA"
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/db_xref="taxon:10376"
1..2661
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/protein_id="CAA47986.1"
/db_xref="GI:59164"
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KMDNCSNTITAVRAQGLDVLPLSLPSAODNSVTKEMLGNIDIECMEDEI
SOVLPGDNKFNITSGYESHVPBGGLITSPVATPIPGYAVSLRLTPRVSRLG
NNSILVYFSGNGPKASGGDYCIOSNIVSDEI PASQDMPNTTIDITYGDNAVSV
NWSIEDANPNVTVTAFMAMPNNTETDFCKWTLNSGTSGGCGENTISGAPASNTPTIT
VSGLGAPKTLITRTATNATTTTHKVIIRSKAPESSTTPTLNTTGPAPANTTGLPS
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PNATITPLTGKSTSAVTPTPNATSPPTVGETSPKANTNHTLGGTSTPTVVSPPKN
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Best Local Similarity 100.0%; Pred. No. 14;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTCACCTGT 16
Db 2061 GGCTGGTGTCACCTGT 2046

RESULT 31
EBVBLF1/c
LOCUS EBVBLF1 2663 bp DNA linear VRL 09-JAN-1998
DEFINITION Epstein-Barr virus BLF1 gene..
ACCESSION X99106
VERSION X99106.1 GI:2769559
KEYWORDS BLF1 gene; gp340.
SOURCE Human herpesvirus 4 (Epstein-Barr virus)
ORGANISM Human herpesvirus 4
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Lymphocryptovirus.

REFERENCE
AUTHORS Mackett, M., Cox, C., Pepper, S. D., Lees, J. F., Naylor, B. A.,
Wedderburn, N. and Arrand, J. R.
TITLE Immunisation of common marmosets with vaccinia virus expressing
Epstein-Barr virus (EBV) gp340 and challenge with EBV
J. Med. Virol. 50 (3), 263-271 (1996)
MEDLINE 97082049
PUBMED 8923292
REFERENCE 2 (bases 1 to 2663)
AUTHORS Pepper, S. D. V.
TITLE Direct Submission
JOURNAL Submitted (04-JUL-1996) S. D. V. Pepper, Paterson Institute for
Cancer Research, Molecular Biology, Wilmslow Rd, Wilington,
Manchester M20 9BX, UK

FEATURES
source
1..2663
Location/Qualifiers

/organism="Human herpesvirus 4"
/mol_type="genomic DNA"
/strain="M81"
/db_xref="taxon:10376"
66..2636
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/product="gp340"
/protein_id="CA67558.1"
/db_xref="GI:2769560"
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KVNQNSNTITAVRAQGLDVTPLISPTSAQDSNPFVKOMGNEIDIECIDDEI
SOYLPQDNKNTICSGESHPVSGGIIITISPVATPIPGTGYAYSLALTRPVSRFLG
NNSILVYFSGNGPKASGDYCIQSNIVFSDIEIPASQDMPTNTDITVGDNAIVYVP
MTVSEDAISPNTVITAFWAMPNNTETDFKCKWTLISGTPSCENISGAFASNRPDIT
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STHVPNLTPASTGPTVADVTSPTPATSTGASVTPSPSPNDGSKAPDMTS
PTSAVTPTPNGTSPPTAMTTPPNASPTIGKTSPTSAVTPTPNATSPPAVTPPT
PNATSPVGTSPQANATNTITGISTPVTVPVPPKNATSDVTGGNRTSSSTSSNS
LRPSIIPETTSHPMLTSAHPGTGENTQVTPASISTHASTSSPARPETTSQASGP
GNSGTSPGKENVVTKGTGPKNATSPQAPGQGTAVPTVSTGKNSPTTGAGTTHG
GARTSTPTDGDSTTPPRYNATYLPSPSSKLRPMWTFSPPTTAQATVFP
PTQPRFNSMLVLOMASLAVITLLILLVMACAPRNLSHTTTTTPYDAATYV
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polya_signal 2641..2646
BASE COUNT 755 a 829 c 552 g 527 t
ORIGIN

Query Match 88.9%; Score 16; DB 14; Length 2663;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCTGGTGTCACCTGT 16

Db 2036 GGCTGGTGTCACCTGT 2021

RESULT 32
E00513/c
LOCUS E00513 2721 bp DNA linear PAT 29-SEP-1997
DEFINITION Genomic DNA encoding Epstein-Barr virus gp 220/200.
ACCESSION E00513
VERSION E00513.1 GI:2168792
KEYWORDS JP 1985232094-A/1.
SOURCE Human herpesvirus 4 (Epstein-Barr virus)
ORGANISM Human herpesvirus 4
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Lymphocryptovirus.

REFERENCE
AUTHORS Ericot, K., Jierom, T., Mearti, F. and Kuristofuua, B.
TITLE VACCINE TO EPSTEIN BAR VIRUS
JOURNAL Patent: JP 1985232094-A 1 18-NOV-1985;
UNIV CHICAGO:THE

OS Epstein-Barr virus
PN JP 1985232094-A/1
PD 18-NOV-1985
PF 30-JAN-1985 JP 1985014606
PR 30-JAN-1984 US 84 575352, 23-JUL-1984 US 84 633558 PI
ERISUTU KILFU, JIEROMU TANNA, MEARTI FUNMERU, PI KURISTOFUUA
BEISERU

PC C12N15/00, A61K39/245, C07H21/04, C07K13/00, C12N1/00//C12P21/02,
PC C12N1/00,
PC C12R1:19);
CC strandedness: Double;
CC topology: Linear;
CC hypothetical: No;
CC anti-sense: No;
FH key Location/Qualifiers
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CDS 1..2721
/product="gp 220/200".
Location/Qualifiers
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/db_xref="taxon:10376"

BASE COUNT 762 a 876 c 557 g 526 t
ORIGIN

Query Match 88.9%; Score 16; DB 6; Length 2721;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTGGTGTCACCTGT 16
Db 2124 GGCTGGTGTCACCTGT 2109

RESULT 33
HS4GP340A
LOCUS HS4GP340A 3210 bp DNA linear VRL 15-FEB-2001
DEFINITION Epstein-Barr virus glycoprotein 340 (BLF1) and BLF2 genes,
complete cds's, and BLRF3 gene, first exon.
ACCESSION 107922
VERSION 107922.1 GI:291519
KEYWORDS antigen; glycoprotein 340; gp340; viral antigen.
SOURCE Human herpesvirus 4 (Epstein-Barr virus)
ORGANISM Human herpesvirus 4
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Lymphocryptovirus.

REFERENCE
AUTHORS Lees, J. F., Arrand, J. E., Pepper, S. D., Stewart, J. P., Mackett, M. and
TITLE The Epstein-Barr virus candidate vaccine antigen gp340/220 is
JOURNAL Virolgy 195 (2), 578-586 (1993)

FEATURES	source	location/Qualifiers
MEDLINE	93331716	
RUBMED	8393237	
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gene		complement(138..584) /gene="BLRF2" /complement(138..584) /gene="BLRF2" /complement(138..584) /gene="BLRF2" /codon_start=1 /protein_id="AA02784.1" /db_xref="GI:291521" /translation="MCPVRORPAPAPDNIIEVPVTSQVQERASGDENVYLIEISDSSSEEPATVAKRRRFRSPPOVERPILPAPSTSPDMQPGOVSPQITAVIQLRQBDRTMRPPIYLPAALLANCPAGILRAHRLPQKRPCLSRQSPDSQTSFC"
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DEFINITION	Synthetic nucleotide sequence of the leftward reading frame of the Bam I-fragment encoding gp 250/350.	
ACCESSION	A11128	

VERSION	A1128.1	GI:490970
KEYWORDS	synthetic construct	
SOURCE	synthetic construct	
ORGANISM	artificial sequences.	
REFERENCE	1 (bases 1 to 3400)	
TITLE	Wolf,H.J DNA sequences of the EBV genome, recombinant DNA molecules, processes for producing EBV-related antigens, diagnostic compositions and pharmaceutical compositions containing said antigens	
JOURNAL	Patent: EP 0173254-A 3 05-MAR-1986;	
FEATURES	Location/Qualifiers	
source	1..3400 /organism="synthetic construct" /mol_type="genomic DNA" /db_xref="taxon:32630"	
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LOCUS	E01006 3400 bp DNA linear PAT 29-SEP-1997	
DEFINITION	cDNA encoding p350 of Epstein-Barr virus.	
ACCESSION	E01006.	
VERSION	E01006.1 GI:2169265	
KEYWORDS	JP 1986257188-A/2. Human herpesvirus 4 (Epstein-Barr virus)	
SOURCE	Human herpesvirus 4	
ORGANISM	Vituses; dsDNA viruses, no RNA stage; Herpesviridae; Gammaherpesvirinae; Lymphocryptovirus.	
REFERENCE	1 (bases 1 to 3400) Hansu,Y.B.	
AUTHORS	DNA SEQUENCE OF EBV GENOM, RECOMBINED DNA MOLECULE AND EBV RELATED ANTIGEN AND DIANOISTIC COMPOSITION CONTAINING SAID ANTIGEN AND PRODUCTION OF PREPARATION Patent: JP 1986257188-A 2 14-NOV-1986;	
JOURNAL	HANSU YOTSUTO BOKURUFU OS Epstein-Barr virus JP 1986257188-A/2	
COMMENT		

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PD 14-NOV-1986
PF 23-AUG-1985 JP 1985185661
PR 23-AUG-1984 EP 84 84110089, 23-AUG-1984 EP 84 84110090 PI
HANSU YOTSUTU BUORUFU
PC C12N15/00.A6IK39/245.C07H21/04.C07K13/00.C12N1/00.G0IN33/569,
PC G0IN33/577//
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CC topology: Linear;
CC hypothetical: No;
CC anti-sense: No;
FH Key Location/Qualifiers
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FT CDS 556..3279
FT 3280..3400 /product='p350 Epstein-Barr virus' FT 3'UTR
FT polyA_site 3284..3291.
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OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 21:32:41 ; Search time 547.75 Seconds
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Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 2888711 seqs, 20454813386 residues

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Post-processing: Listing first 120 summaries

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9: gb_pr:*

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11: gb_sy:*

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13: gb_un:*

14: gb_vl:*

15: em_ba:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pac:*

24: em_ph:*

25: em_pl:*

26: em_ro:*

27: em_scs:*

28: em_un:*

29: em_vl:*

30: em_hcg_hum:*

31: em_hcg_inv:*

32: em_hcg_other:*

33: em_hcg_mus:*

34: em_hcg_pin:*

35: em_hcg_rod:*

36: em_hcg_mam:*

37: em_hcg_vrt:*

38: em_sy:*

39: em_hugo_hum:*

40: em_hugo_mus:*

41: em_hugo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	20	100.0	20	6	AX522237 Sequence 29
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4	20	100.0	2663	14	EBVBLFL
5	20	100.0	2721	6	E00513 Genomic DNA
6	20	100.0	3400	6	A11128 Synthetic n
7	20	100.0	3400	6	E01006 cDNA encodi
8	20	100.0	3833	6	AR049357 Sequence
9	20	100.0	5019	6	A11178 Synthetic n
10	20	100.0	5019	6	E01007 DNA sequenc
11	20	100.0	5931	6	AR233080 Sequence
12	20	100.0	5931	14	HS4ENVGP
13	20	100.0	171823	14	HHV507799
14	20	100.0	172281	14	BEV
15	20	100.0	184113	14	HS4B558RAJ
16	17	85.0	163473	2	AC142486
17	16	80.0	193466	2	AC113548
18	16	80.0	204	11	G20457
19	16	80.0	1555	8	AY079380
20	16	80.0	1767	8	AY039920
21	16	80.0	2376	6	AX151433
22	16	80.0	6203	6	AB002380
23	16	80.0	9501	9	AF180681
24	16	80.0	16529	9	AP000271
25	16	80.0	32813	9	AF520762
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27	16	80.0	68589	2	AC087682
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33	16	80.0	100000	9	AP000104
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82	15	75.0	654	11	BV013986	BV013986 S212P6774
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93	15	75.0	2556	14	AF172333	AF172333 Human her
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96	15	75.0	2702	1	EFPPD1GNS	AF034606 Danio rer
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98	15	75.0	4043	10	HS4GP340A	L07922 Epstein-Bar
99	15	75.0	4043	10	AF345863S2	AF345864 Mus muscu
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101	15	75.0	5207	10	AC006119	AC006119 Mus muscu
102	15	75.0	8647	10	AL669922	AL669922 Mouse DNA
103	15	75.0	8797	10	AF028784	AF028784 Rattus no
104	15	75.0	16313	1	AE000879	AE000879 Methanoba
105	15	75.0	33106	10	AL928961	AL928961 Mouse DNA
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107	15	75.0	53572	2	AC100004	AC100004 Mus muscu
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109	15	75.0	59905	2	AC100985	AC100985 Mus muscu
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ALIGNMENTS

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LOCUS	Sequence 2 from Patent WO02064842.				
DEFINITION	AX522237				
ACCESSION	AX522237.1	GI:24411115			
VERSION					
KEYWORDS					
SOURCE	Human herpesvirus 4 (Epstein-Barr virus)				
ORGANISM	Human herpesvirus 4				
REFERENCE	Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Gammaherpesvirinae; Lymphocryptovirus.				
AUTHORS	Witte,D.P. and Groen,P.A.				

TITLE	Quantitative epstein barr virus per rapid assay
JOURNAL	Patent: WO 02064842-A 2 22-AUG-2002;
FEATURES	Children's Hospital Research Foundation (US)
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LOCUS	126103
DEFINITION	Sequence 29 from patent US 5556772.
ACCESSION	126103
VERSION	126103.1 GI:1605973
KEYWORDS	
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 20)
AUTHORS	Sorge,J.A. and Mullinax,R.L.
TITLE	Polymerase compositions and uses thereof
JOURNAL	Patent: US 5556772-A 29 17-SEP-1996;
FEATURES	Location/Qualifiers
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DEFINITION	Sequence 3 from Patent US 4707358.
ACCESSION	104174
VERSION	104174.1 GI:268757
KEYWORDS	
SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1 (bases 1 to 1041)
AUTHORS	Kieff,E., Tanner,J., Hummel,M. and Beisel,C.
TITLE	Vaccine against Epstein-Barr Virus
JOURNAL	Patent: US 4707358-A 3 17-NOV-1987;
FEATURES	Location/Qualifiers
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 DEFINITION Epstein-Barr virus BLF1 gene.
 ACCESSION X99106
 VERSION X99106.1 GI:2769559
 KEYWORDS BLF1 gene; gp340.
 SOURCE Human herpesvirus 4 (Epstein-Barr virus)
 ORGANISM Human herpesvirus 4
 Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Gammaherpesvirinae; Lymphocryptovirus.

REFERENCE
 1 Mackeiz, M., Cox, C., Pepper, S.D., Lees, J.F., Naylor, B.A., Wedderburn, N. and Arrand, J.R.
 Immunisation of common marmosets with vaccinia virus expressing Epstein-Barr virus (EBV) gp340 and challenge with EBV
 J. Med. Virol. 50 (3), 263-271 (1996)
 PUBMED 8923292

2 (bases 1 to 2663)
 Pepper, S.D.V.
 Direct Submission
 Submitted (04-JUL-1996) S.D.V. Pepper, Paterson Institute for Cancer Research, Molecular Biology, Wilmslow Rd, Wlthington, Manchester M20 9BX, UK

FEATURES
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QY 1 CCTAGAGAGAACAGTCCC 20
 DB 1825 CCTAGAGAGAACAGTCCC 1844

RESULT 5
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 DEFINITION Genomic DNA encoding Epstein-Barr virus gp 220/200.
 ACCESSION E00513
 VERSION E00513.1 GI:2168792
 KEYWORDS JP 1985232094-A/1.
 SOURCE Human herpesvirus 4 (Epstein-Barr virus)
 ORGANISM Human herpesvirus 4
 Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Gammaherpesvirinae; Lymphocryptovirus.

REFERENCE
 1 (bases 1 to 2721)
 Eriotsuto, K., Jieroomu, T., Mearli, F. and Kurisutofuaa, B.
 VACCINE TO EPSTEIN BAR VIRUS
 Patent: JP 1985232094-A 1 18-NOV-1985;
 UNIV CHICAGO:THE

COMMENT
 OS Epstein-Barr virus
 PN JP 1985232094-A/1
 PD 18-NOV-1985
 PF 30-JAN-1985 JP 1985014606
 PR 30-JAN-1984 US 84 575352, 23-JUL-1984 US 84 633558 PI
 ERIOTSUTO KIIFU, JIEROOMU TANNA, MEARLI FUNMERU, PI KURISOTOFUAA
 BEISERU

PC C12N15/00,A61K39/245,C07H21/04,C07K13/00,C12N1/00//C12P21/02,
 PC C12N1/00,
 PC C12R1.191;
 CC strandedness: Double;
 CC topology: Linear;
 CC hypothetical: No;
 CC anti-sense: No;
 FH Key Location/Qualifiers
 FT CDS 1..2721
 Location/Qualifiers
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 /organism="Human herpesvirus 4"
 /mol_type="genomic DNA"
 /db_xref="taxon:10376"
 762 a 876 c 557 g 526 t

BASE COUNT 762 a 876 c 557 g 526 t
 ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTAGAGAGAACAGTCCC 20
 DB 1886 CCTAGAGAGAACAGTCCC 1905

RESULT 6
 LOCUS A11128 3400 bp DNA linear PAT 07-DEC-1993
 DEFINITION Synthetic nucleotide sequence of the leftward reading frame of the Bam V-fragment encoding gp 250/350.
 ACCESSION A11128
 VERSION A11128
 KEYWORDS A11128.1 GI:490970
 SOURCE synthetic construct
 ORGANISM synthetic construct
 artificial sequences.
 1 (bases 1 to 3400)
 WOLF,H.J.
 DNA sequences of the EBV genome, recombinant DNA molecules,
 processes for producing EBV-related antigens, diagnostic
 compositions and pharmaceutical compositions containing said
 antigens
 Patent: EP 0173254-A 3 05-MAR-1986;
 WOLF, Hans Joachim
 Location/Qualifiers

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/mol_type="genomic DNA"
/db_xref="taxon:32630"
556. .3279
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encoding gp 250/350."
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/db_xref="GI:490971"
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DVAVTINFDVGGKHLDDLDGQTPHTKAVYPRGAFGSENAIPLFILELAGEL
ALMRSKKLPINVTGEEQVSVSVYQDVGFMCHAMONPVYIPEPTVYI
KMNQNSTNTAVPAAGADLVPLISPTSAQSNSTVKTEMGNDIDECIMDEEI
SOVLPGDKNNTICSGESHPGGLITSTSPVATIPGGVIAISLALPRVSRFLG
NNSILVYFSGNGPKASGDYCIQSNIVFSDIIPASQDMPTNTDITVGDNATYSVP
MVSSEANSPNVTAFWAMPNTEIDFKCKWLTSGTSGCENISGAFASNTGPIIT
VSGIGTAPKTLITRTANATTTTHKVFESKAESESTTSPITNTGTFADPNTTGLPS
STHVPTNLTPASTGPTVSTADVSPSPASTGASPVSPSPMDNGTESKAPDMTS
STSPVTPPNNATSPPTVATTPNNATSPPTVATTPNNATSPPTVATTPNNATSP
PNTSPPTLKTSTPTSAVTPPTPNNATSPPTLKTSTPTSAVTPPTPNNATSPPTGTSPOAN
ATNHTLGGTSPPTVATSPQNNATSAVTTGQNTSSSTSSSLRPSNPEPLSPSTSD
NSTSHMPLITSAPGTGENTVTPASISTHNTSSPAPRPTTSQASGPNSTST
KPEVAVTKGTPONNATSPQASGKTAVPVTSSTGKANKSTGKATVGHGARTST
PTVDGSDSTTPRPNATVTLPTSTSKLRPMPTSPPTVATTPNNATSPPTVATTP
SNLSMLVLOMASLAVTLILLLYMADCAFRNLSHTHTTTPPYDAETV"

BASE COUNT      904 a      1060 c      732 g      704 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 20; DB 6; Length 3400;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      2441 CCTTAGAGAGAACAACTCCC 2460

RESULT 7
LOCUS      E01006      3400 bp      DNA      linear      PAT 29-SEP-1997
DEFINITION      CDNA encoding p350 of Epstein-Barr virus.
ACCESSION      E01006
KEYWORDS      E01006.1 GI:2169265
SOURCE      JP 1986257188-A/2.
ORGANISM      Human herpesvirus 4 (Epstein-Barr virus)
REFERENCE      Human herpesvirus 4
VIRUSES; dsDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Lymphocryptovirus.
1 (bases 1 to 3400)

REFERENCE
AUTHORS      Hansu, Y.B.
TITLE      DNA SEQUENCE OF EBV GENOM, RECOMBINED DNA MOLECULE AND EBV RELATED
ANTIGEN AND DIAGNOSTIC COMPOSITION CONTAINING SAID ANTIGEN AND
PRODUCTION OF PREPARATION
PATENT: JP 1986257188-A 2 14-NOV-1986;
JOURNAL      HANSU YOTSUNO BUNRUFU
OS      Epstein-Barr virus
PN      JP 1986257188-A/2
PD      14-NOV-1986
PR      23-AUG-1985 JP 1985185661
PR      23-AUG-1984 EP 84 84110089, 23-AUG-1984 EP 84 84110090 PI
HANSU YOTSUNO BUNRUFU
PC      C12N15/00, A61K39/245, C07H21/04, C07K13/00, C12N1/00, G01N33/569,
PC      G01N33/577//
PC      C12P21/02, (C12N1/00, C12R1:19);
CC      strandedness: Double;
CC      topology: linear;
CC      hypothetical: No;
CC      anti-sense: No;
FH      Key      Location/Qualifiers
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FEATURES
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/organism="Human herpesvirus 4"
/mol_type="genomic DNA"
/db_xref="taxon:10376"

BASE COUNT      904 a      1060 c      732 g      704 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 20; DB 6; Length 3400;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCTTAGAGAGAACAACTCCC 20
Db      2441 CCTTAGAGAGAACAACTCCC 2460

RESULT 8
LOCUS      AR049357      3833 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION      Sequence 18 from patent US 5824508.
ACCESSION      AR049357
VERSION      AR049357.1 GI:6005396
KEYWORDS
SOURCE      Unknown.
ORGANISM      Unknown.
REFERENCE      Unclassified.
1 (bases 1 to 3833)
AUTHORS      Spaete, R. and Jackman, W.T.
TITLE      Non-splicing variants of gp350/220
JOURNAL      Patent: US 5824508-A 18-20-OCT-1998;
JOURNAL      Location/Qualifiers
source
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/organism="unknown"

BASE COUNT      1013 a      1165 c      846 g      809 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 20; DB 6; Length 3833;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCTTAGAGAGAACAACTCCC 20
Db      2899 CCTTAGAGAGAACAACTCCC 2918

RESULT 9
LOCUS      A11178      5019 bp      DNA      linear      PAT 07-DEC-1993
DEFINITION      Synthetic nucleotide sequence for the fusion protein encoded by
PURUP1.9.
ACCESSION      A11178
KEYWORDS      A11178.1 GI:490997
SOURCE      synthetic construct
ORGANISM      synthetic construct
artificial sequences.
REFERENCE      1 (bases 1 to 5019)
AUTHORS      Wolf, H.J.
TITLE      DNA sequences of the EBV genome, recombinant DNA molecules,
processes for producing EBV-related antigens, diagnostic
compositions and pharmaceutical compositions containing said
antigens
PATENT: EP 0173254-A 5 05-MAR-1986;
JOURNAL      Wolf, Hans Joachim
JOURNAL      Location/Qualifiers
FEATURES
source
1. .5019
/organism="synthetic construct"
/mol_type="genomic DNA"

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of the P3HR-1 deletion junction and characterization of the NotI repeat units that form part of the template for an abundant 12-O-tetradecanoylphorbol-13-acetate-induced mRNA transcript J. Virol. 48 (1), 135-148 (1983)

JOURNAL
MEDLINE
PUBMED
83294686
6310141

8 Bankier,A.T., Deininger,P.L., Satchwell,S.C., Baer,R., Farrell,P.J. and Barrell,B.G.
DNA sequence analysis of the EcoRI DheI fragment of B95-8 and Barrell,B.G.
Epstein-Barr virus containing the terminal repeat sequences Mol. Biol. Med. 1 (4), 425-445 (1983)

JOURNAL
MEDLINE
PUBMED
85060428
6094955

9 Farrell,P.J., Bankier,A., Seguin,C., Deininger,P. and Barrell,B.G.
Latent and lytic cycle promoters of Epstein-Barr virus EMBO J. 2 (8), 1331-1338 (1983)

JOURNAL
MEDLINE
PUBMED
20311131
10872327

10 Jones,M.D., Foster,L., Sheedy,T. and Griffith,B.E.
The EB virus genome in Daudi Burkitt's lymphoma cells has a deletion similar to that observed in a non-transforming strain (P3HR-1) of the virus

JOURNAL
MEDLINE
PUBMED
84207939
6327290

11 Biggin,M., Farrell,P.J. and Barrell,B.G.
Transcription and DNA sequence of the BamHI I fragment of B95-8 Epstein-Barr virus

JOURNAL
MEDLINE
PUBMED
EMBO J. 3 (5), 1083-1090 (1984)
84236104
6203743

12 Yates,J., Warren,N., Reisman,D. and Sugden,B.
A cis-acting element from the Epstein-Barr viral genome that permits stable replication of recombinant plasmids in latently infected cells

JOURNAL
MEDLINE
PUBMED
Proc. Natl. Acad. Sci. U.S.A. 81 (12), 3806-3810 (1984)
84222045
6328526

13 Gibson,T., Stockwell,P., Ginsburg,M. and Barrell,B.
Homology between two EBV early genes and HSV ribonucleotide reductase and 38K genes

JOURNAL
MEDLINE
PUBMED
Nucleic Acids Res. 12 (12), 5087-5099 (1984)
84247360
6330697

14 (bases 1 to 171823)
Baer,R.J., Bankier,A.T., Biggin,M.D., Deininger,P.L., Farrell,P.J., Gibson,T.J., Hattuli,G.F., Hudson,G.S., Satchwell,S.C., Seguin,C., Tufnell,P.S. and Barrell,B.G.
DNA sequence and expression of the B95-8 Epstein-Barr virus genome

JOURNAL
MEDLINE
PUBMED
Nature 310 (5974), 207-211 (1984)
84270667
6087149

15 Bodescut,M. and Perricaudet,M.
Cloned alternative splice sites in Epstein-Barr virus RNAs

JOURNAL
MEDLINE
PUBMED
Nucleic Acids Res. 15 (14), 5887 (1987)
87289053
3039467

16 Lau,G., Perricaudet,M. and Farrell,P.J.
A spliced Epstein-Barr virus gene expressed in immortalized lymphocytes is created by circularization of the linear viral genome

JOURNAL
MEDLINE
PUBMED
EMBO J. 7 (3), 769-774 (1988)
88283646
2840285

AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
91021036
2171209

REFERENCE
AUTHORS
JOURNAL
PUBMED
18 (bases 1 to 171823)
Hattuli,G.F., Barrell,B.G., Quinn,J. and McGeoch,D.
Unpublished

19 Birnie,U.K., Amon,W. and Farrell,P.J.
Induction of Epstein-Barr virus late promoters on small plasmids in the EBV late lytic cycle requires ori L γ

JOURNAL
MEDLINE
PUBMED
20 (bases 1 to 171823)
Farrell,P.J.
Direct Submission
Submitted (01-AUG-2002) Farrell P., Ludwig Institute for Cancer Research, Imperial College School of Medicine, St. Mary's Campus, Norfolk Place London W2 1PG

COMMENT
This sequence was assembled from B95-8 EBV [14] and Raji EBV [18] with sequence corrections [16, 19]. The number of major internal repeat units has been reduced from 11.6 [14] to a more typical 7.6 and the B95-8 deletion sequences have been restored to give a sequence more representative of wild type EBV.

Numbering
like the modified B95-8 sequence [14, 16] accession number V01555, this sequence starts 1 base to the left of the EcoRI site separating EcoRI DheI from EcoRI I (ie the first A of AGAATTC.)

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/mol_type="genomic DNA"
/strain="B95-8"
/db_xref="taxon:10376"
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/mol_type="genomic DNA"
/strain="B95-8"
/db_xref="taxon:10376"
139224..151554
/organism="Human herpesvirus 4"
/mol_type="genomic DNA"
/strain="Raji"
/db_xref="taxon:10376"
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/codon_start=1
/product="terminal protein LMP2A"
/protein_id="CAD53382.1"
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PRDSSQHTYERAGSGMPPVCLPYVAPYFLWLAIAASCTFASVTVYATGLAS
LILIAVAASVYAAQRKLTFTVTLAVTFEATLTWTEIDPPNSLIFALLAAG
LGGIVLVMLVLLIAYRRWRRLTVCGGIMFLACVLIVDAVQLSPILGAVVVS
MTLILAVLWMSPGAGTGAALITLAAALASLILGTNLMTWMLMTLV
VLIISSGSSCSPLSKILARFLVALALLASALIAAGSLIQTNPKSLSTFEFNL
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1280..1495,1574..1680)
/gene="LMP2"
/codon_start=1
/product="terminal protein LMP2B"
/protein_id="CAD53383.1"

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source
source
source
CDS
CDS
CDS
exon

Query Match 100.0%; Score 20; DB 14; Length 171823;
 Best Local Similarity 100.0%; Pred. No. 0.55;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTAGGAGACAGTCCC 20
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 DB 77980 CCTTAGGAGACAGTCCC 77961

RESULT 14
 EBV/c 172281 bp DNA circular VRL 20-SEP-1999
 LOCUS Epstein-Barr virus (EBV) genome, strain B95-8.
 DEFINITION V01555 J02070 K01729 V01554 X00498 X00784
 ACCESSION V01555.1 GI:59074
 VERSION DNA polymerase; EBNA; genome; ribonucleotide reductase; tandem repeat; terminal repeat.
 KEYWORDS Human herpesvirus 4 (Epstein-Barr virus)
 SOURCE Human herpesvirus 4
 ORGANISM Gammapherpesvirinae; Lymphocryptovirus.
 REFERENCE 1 (bases 1 to 172281)
 AUTHORS Arrand, V.R., Rymo, L., Walsh, J.E., Bjorck, E., Lindahl, T. and Griffin, B.E.
 TITLE Molecular cloning of the complete Epstein-Barr virus genome as a set of overlapping restriction endonuclease fragments
 JOURNAL Nucleic Acids Res. 9 (13), 2999-3014 (1981)
 MEDLINE 82014887
 PUBMED 6269068
 REFERENCE 2 (bases 1 to 172281)
 AUTHORS Kozak, M.
 TITLE Possible role of flanking nucleotides in recognition of the AUG initiator codon by eukaryotic ribosomes
 JOURNAL Nucleic Acids Res. 9 (20), 5233-5262 (1981)
 MEDLINE 82059504
 PUBMED 7301588
 REFERENCE 3 (bases 1 to 172281)
 AUTHORS Deininger, P.L., Bankier, A., Farrell, P., Baer, R. and Barrell, B.
 TITLE Sequence analysis and in vitro transcription of portions of the Epstein-Barr virus genome
 JOURNAL Cell. Biochem. 19 (3), 267-274 (1982)
 MEDLINE 83109311
 PUBMED 6296170
 REFERENCE 4 (bases 1 to 172281)
 AUTHORS Farrell, P.J., Deininger, P.L., Bankier, A. and Barrell, B.
 TITLE Homologous upstream sequences near Epstein-Barr virus promoters
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 80 (6), 1565-1569 (1983)
 MEDLINE 83169725
 PUBMED 6300857
 REFERENCE 5 (bases 142687 to 159853)
 AUTHORS Bankier, A.T., Deininger, P.L., Farrell, P.J. and Barrell, B.G.
 TITLE Sequence analysis of the 17,166 base-pair EcoRI fragment C of B95-8 Epstein-Barr virus
 JOURNAL Mol. Biol. Med. 1 (1), 21-45 (1983)
 MEDLINE 85035713
 PUBMED 6092825
 REFERENCE 6 (bases 112620 to 125316)
 AUTHORS Seguin, C., Farrell, P.J. and Barrell, B.G.
 TITLE DNA sequence and transcription of the BamHI fragment B region of B95-8 Epstein-Barr virus
 JOURNAL Mol. Biol. Med. 1 (3), 369-392 (1983)
 MEDLINE 85060424
 PUBMED 6094953
 REFERENCE 7 (bases 45644 to 52450)
 AUTHORS Jeang, K.T. and Hayward, S.D.
 TITLE Organization of the Epstein-Barr virus DNA molecule. III. Location of the p3HR-1 deletion junction and characterization of the NotI repeat units that form part of the template for an abundant 12-O-tetradecanoylphorbol-13-acetate-induced mRNA transcript
 JOURNAL J. Virol. 48 (1), 135-148 (1983)
 MEDLINE 83294686
 PUBMED 6310141

REFERENCE 8 (bases 159853 to 172281)
 AUTHORS Bankier, A.T., Deininger, P.L., Satchwell, S.C., Baer, R., Farrell, P.J. and Barrell, B.G.
 TITLE DNA sequence analysis of the EcoRI DheI fragment of B95-8 Epstein-Barr virus containing the terminal repeat sequences
 JOURNAL Mol. Biol. Med. 1 (4), 425-445 (1983)
 MEDLINE 85060428
 PUBMED 6094955
 REFERENCE 9 (bases 1 to 172281)
 AUTHORS Farrell, P.J., Bankier, A., Seguin, C., Deininger, P. and Barrell, B.G.
 TITLE Latent and lytic cycle promoters of Epstein-Barr virus
 JOURNAL EMBO J. 2 (8), 1331-1338 (1983)
 MEDLINE 20331131
 PUBMED 10872327
 REFERENCE 10 (bases 45415 to 52824)
 AUTHORS Jones, M.D., Foster, L., Sheedy, T. and Griffin, B.E.
 TITLE The EB virus genome in Daudi Burkitt's lymphoma cells has a deletion similar to that observed in a non-transforming strain (p3HR-1) of the virus
 JOURNAL EMBO J. 3 (4), 813-821 (1984)
 MEDLINE 84207939
 PUBMED 6327290
 REFERENCE 11 (bases 87650 to 92703)
 AUTHORS Biggin, M., Farrell, P.J. and Barrell, B.G.
 TITLE Transcription and DNA sequence of the BamHI L fragment of B95-8 Epstein-Barr virus
 JOURNAL EMBO J. 3 (5), 1083-1090 (1984)
 MEDLINE 84236104
 PUBMED 6203743
 REFERENCE 12 (bases 7315 to 9312)
 AUTHORS Yates, J., Warren, N., Reisman, D. and Sugden, B.
 TITLE A cis-acting element from the Epstein-Barr viral genome that permits stable replication of recombinant plasmids in latently infected cells
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 81 (12), 3806-3810 (1984)
 MEDLINE 84222045
 PUBMED 6328526
 REFERENCE 13 (bases 76089 to 79808)
 AUTHORS Gibson, T., Stockwell, P., Ginsburg, M. and Barrell, B.
 TITLE Homology between two EBV early genes and HSV ribonucleotide reductase and 38k genes
 JOURNAL Nucleic Acids Res. 12 (12), 5087-5099 (1984)
 MEDLINE 84247360
 PUBMED 6330697
 REFERENCE 14 (bases 1 to 172281)
 AUTHORS Baer, R.J., Bankier, A.T., Biggin, M.D., Deininger, P.L., Farrell, P.J., Gibson, T.J., Hatfull, G.F., Hudson, G.S., Satchwell, S.C., Seguin, C., Tufnell, P.S. and Barrell, B.G.
 TITLE DNA sequence and expression of the B95-8 Epstein-Barr virus genome
 JOURNAL Nature 310 (5974), 207-211 (1984)
 MEDLINE 84270667
 PUBMED 6087149
 REFERENCE 15 (bases 1 to 172281)
 AUTHORS Bodescot, M. and Perricaudet, M.
 TITLE Clustered alternative splice sites in Epstein-Barr virus RNAs
 JOURNAL Nucleic Acids Res. 15 (14), 5887 (1987)
 MEDLINE 87289053
 PUBMED 3039467
 REFERENCE 16 (bases 1 to 172281)
 AUTHORS Laux, G., Perricaudet, M. and Farrell, P.J.
 TITLE A spliced Epstein-Barr virus gene expressed in immortalized lymphocytes is created by circularization of the linear viral genome
 JOURNAL EMBO J. 7 (3), 769-774 (1988)
 MEDLINE 88283646
 PUBMED 2840285
 REFERENCE 17 (bases 1 to 172281)
 AUTHORS Hatfull, G.F., Barrell, B.G., Quinn, J. and McGeoch, D.
 TITLE Unpublished
 JOURNAL 18 (bases 1 to 172281)
 REFERENCE 18 (bases 1 to 172281)
 AUTHORS Farrell, P.J. and Barrell, B.G.
 TITLE Direct Submission
 JOURNAL Submitted (05-JUN-1984)

REFERENCE
AUTHORS
TITLE
JOURNAL

COMMENT

19 (bases 1 to 172281)
 Farrell, P. J.
 Direct Submission
 Submitted (18-MAR-1988) Farrell P., Ludwig Institute for Cancer
 Research, St. Mary's Hospital Medical School, Norfolk Place London
 W2 1PG

CDS

Listed under this feature are all known protein coding regions as
 well as all the major open reading frames in the sequence. In
 general the term major is taken as the longest frame in a
 particular region taking into account the adjacent longest frames
 and likely transcription signals. Note that on this basis some long
 overlapping frames have been excluded and on the other hand some
 small frames have been included which might represent exons or
 genes because they occur in a logical combination with other
 features or because of some other experimental data. The reading
 frames are named according to the Bam HI fragment in which they
 start. eg BAPf3 is the third leftward frame starting in Bam HI
 fragment A. BOPf1 is the first rightward frame in Bam HI fragment
 O. If there is an obvious PATA sequence followed by an in frame Met
 codon that satisfies the rules of Kozak [12] in that there is a
 purine at -3 and/or a G at +4 then the reading frame is numbered
 from the A of the ATG to the base preceding the termination codon.
 If there is no obvious initiation codon or there is a substantial
 reading frame in phase before the ATG then the reading frame is
 numbered from the first base of the first codon.

SITES OF POLYA SIGNALS

This feature lists all occurrences of the sequence AATAAA which is
 found normally approximately 20 bases upstream of the mRNA
 processing/polyA addition site. The rarely used homolog AATAAA is
 only listed when it is found in a position close to the end of a
 major reading frame.

SITES OF DONOR AND ACCEPTOR SEQUENCES

This is not a comprehensive listing of all such sequences and only
 the positions of a few have been noted because they occur in
 potentially interesting positions. The number quoted in the table
 is the position of the terminal base in the intron in each case.
 Restriction enzyme SITES.

Only the positions of the sites Bam HI (BAM) are listed.

RPT

This feature is used to define repetitive sequences.

SITE DEL.

This feature defines deletions in B95-8 with respect to other
 strains such as Raji and also to deletions in other strains such as
 P3H1 and DAUDI with respect to B95-8.

SITE HPN

Denotes sequences with twofold symmetry ie could form hairpin
 loops. This is not a comprehensive list - only a few occurrences
 noted.

ORGRPL

Denotes the region that encompasses an origin of replication (ori
 p). [13].

NUMBERING

The DNA sequence of B95-8 EBV has been revised [19]. The original
 (Baer et al, 1984) base 359 has been deleted so the new sequence
 around that position reads TCAGCTTT. To avoid renumbering the
 entire sequence, position 1 has been moved 1 base to the left of
 the EcoRI site separating EcoRI Dnet from EcoRI I
 (ie the first A of AGAATTC).

FEATURES

source

1. 172281

/organism="Human herpesvirus 4"

/mol_type="genomic DNA"

/strain="B95-8"

/db_xref="taxon:10376"

mrna

58..272

Query Match

100.0%; Score 20; DB 14; Length 172281;

Best Local Similarity

100.0%; Pred. No. 0.55; 0; Indels 0; Gaps 0;

Matches

20; Conservative 0; Mismatches

1 CCTAGAGGAGCAAGTCCC 20

|||||

9

DB 90268 CCTAGAGGAGCAAGTCCC 90249

RESULT.15
LOCUS

HSAB958RAJ/c 184113 bp DNA linear VRL 12-APR-1996

DEFINITION

Epstein-Barr virus, artifactual joining of B95-8 complete genome

ACCESSION

M80517 M75989

VERSION

M80517.1 GI:330330

KEYWORDS

Human herpesvirus 4 (Epstein-Barr virus)

SOURCE

Human herpesvirus 4

ORGANISM

Human herpesvirus 4

REFERENCE

1 (sites)
 Baer, R.J., Bankier, A.T., Biggin, M.D., Deininger, P.L., Farrell, P.J.,
 Gibson, T.J., Hatfull, G.F., Hudson, G.S., Satchwell, S.C., Segun, C.,
 Tufnell, P.S. and Barré, B.G.

AUTHORS

DNA sequence and expression of the B95-8 Epstein-Barr virus genome

TITLE

Nature 310 (5974), 207-211 (1984)

JOURNAL

84270667

MEDLINE

6087149

PUBMED

2 (sites)

REFERENCE

Parker, B.D., Bankier, A., Satchwell, S., Barré, B. and Farrell, P.J.
 Sequence and transcription of Raji Epstein-Barr virus DNA spanning
 the B95-8 deletion region

AUTHORS

Virology 179 (1), 339-346 (1990)

JOURNAL

91021036

MEDLINE

2171209

PUBMED

3 (sites)

REFERENCE

Sample, J., Brooks, L., Sample, C., Young, L., Rowe, M., Gregory, C.,
 Rickinson, A. and Kieff, E.

AUTHORS

Restricted Epstein-Barr virus protein expression in Burkitt
 lymphoma is due to a different Epstein-Barr nuclear antigen 1
 transcriptional initiation site

JOURNAL

Proc. Natl. Acad. Sci. U.S.A. 88 (14), 6343-6347 (1991)

MEDLINE

91296817

PUBMED

1648738

REFERENCE

4 (bases 1 to 184113)

AUTHORS

Jenson, H.B.

TITLE

GenBank Curator Program

JOURNAL

Unpublished (1992)

COMMENT

Original source text: Human herpesvirus 4 DNA.
 The B95-8 genome (V01555) has a large deletion in the right side of
 the genome which has been sequenced in Raji (M35547). These
 sequences have been joined to form an extended and more complete,
 although artifactual, EBV sequence.
 For features, refer to feature tables of V01555 and M35547.

FEATURES

source

1. 184113

/organism="Human herpesvirus 4"

/mol_type="genomic DNA"

/db_xref="taxon:10376"

1..152008

/note="B95-8 sequences (corresponds to 1-152,008 of
 V01555)"

152009..152012

/note="Overlap of B95-8 and Raji sequences at B95-8
 deletion point (corresponds to 152,009-152,012 in V01555,
 and 1-4 in M35547)"

153013..163839

/note="Raji sequences (corresponds to 5-11,831 of M35547)"

163840..163843

/note="Overlap of B95-8 and Raji sequences at B95-8
 deletion point (corresponds to 152,009-152,012 of V01555,
 and 11,832-11,835 of M35547)"

163844..184113

/note="B95-8 sequences (corresponds to 152,013-172,282 of
 V01555)"

misc_feature

misc_feature

misc_feature

misc_feature

misc_feature

misc_feature

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misc_feature

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misc_feature

BASE COUNT

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Query Match 100.0%; Score 20; DB 14; Length 184113;
 Best Local Similarity 100.0%; Pred. No. 0.54;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCTTAGAGGACAGTCCC 20
 Db 9c268 CCTTAGAGGACAGTCCC 90249

RESULT 16
 AC142486/163273 bp DNA linear HTG 01-APR-2003
 LOCUS Rattus norvegicus clone CH230-522E23, *** SEQUENCING IN PROGRESS
 DEFINITION *** 49 unordered pieces.
 AC142486
 HTG: HTG_PHASE1
 HTG: HTG_PHASE2
 Rattus norvegicus (Norway rat)
 Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE
 AUTHORS
 1 (bases 1 to 163273)
 Muzny, D., Marre, M., Metzger, M., Lee, A., Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Angiano, D., Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Bismail, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., DeLeon, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C. M., Gabris, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebregeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, M., Guevara, W., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hogue, M., Hollins, B., Howells, S., Huliy, S., Hume, J., Idelbirt, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, D., Lorensuwa, L., Louised, H., Lozano, R. J., Lu, X., Ma, J., Maheshwari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhinney, S., McLeod, M., McNeill, T., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Mundaea, M., Murphy, M., Nait, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokeme, O., Okunolu, G., Olariunpungun, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfankuch, C., Plopper, F., Polidexter, A., Popovic, D., Primus, E., Pu, L., Puazo, M., Quiroz, J., Rachin, E., Reeves, K., Regier, M. A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojals, A., Rose, M., Rose, R., Ruiz, S. J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smaj, J., Sneed, A., Sodergren, E., Song, X. Z., Sorelle, R., Sosa, J., Steidle, M., Strong, R., Sutton, A., Swartz, A., Taber, P., Taylor, C., Taylor, T., Thomas, N., Thomas, A., Tingey, A., Trejos, Z., Usmani, K., Valae, R., Vera, V., Villaana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, U., Warden, R., Wei, X., White, F., Williams, G., Willison, R., Wleciysk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O., Weinstock, G., and Gibbs, R. A.

TITLE
 JOURNAL
 Unpublished

REFERENCE
 AUTHORS
 2 (bases 1 to 163273)
 Worley, K.C.
 TITLE
 JOURNAL
 Submitted (31-MAR-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 163273)
 Worley, K.C.
 TITLE
 JOURNAL
 Submitted (01-APR-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
 On Apr 1, 2003 this sequence version replaced gi:29374196.

COMMENT
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: <http://www.hgsc.bcm.tmc.edu/>
 Contact: hgsc-help@bcm.tmc.edu
 Project Information
 Center project name: KEMO
 Center clone name: CH230-522E23
 Summary Statistics
 Sequencing vector: plasmid
 Chemistry: Dye-terminator Big Dye 100% of reads
 Assembly program: Phrap, version 0.990329
 Consensus quality: 140865 bases at least Q40
 Consensus quality: 147625 bases at least Q30
 Consensus quality: 152515 bases at least Q20
 Estimated insert size: 149404; sum-of-contigs estimation
 Quality coverage: 2x in Q20 bases; sum-of-contigs estimation

NOTE: Estimated insert size may differ from sequence length
 (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
 NOTE: This is a 'working draft' sequence. It currently consists of 49 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 1102: contig of 1102 bp in length
 1103 1202: gap of unknown length
 1203 2433: contig of 1231 bp in length
 2434 2533: gap of unknown length
 2534 3667: contig of 1134 bp in length
 3668 4781: gap of unknown length
 4782 4881: contig of 1014 bp in length
 4882 6332: contig of 1451 bp in length
 6333 6432: gap of unknown length
 6433 7726: contig of 1294 bp in length
 7727 7827: gap of unknown length
 7828 9239: contig of 1413 bp in length
 9240 9339: gap of unknown length
 9340 10646: contig of 1307 bp in length
 10647 10746: gap of unknown length
 10747 13007: contig of 2261 bp in length
 13008 13207: gap of unknown length
 13208 14650: contig of 1543 bp in length
 14651 14750: gap of unknown length
 14751 16039: contig of 1289 bp in length
 16040 16139: gap of unknown length
 16140 18232: contig of 2093 bp in length
 18233 18332: gap of unknown length
 18333 19866: contig of 1534 bp in length
 19867 19967: gap of unknown length
 19968 21078: contig of 1112 bp in length
 21079 21178: gap of unknown length
 21179 22965: contig of 1787 bp in length
 22966 23065: gap of unknown length
 23066 25141: contig of 2076 bp in length
 25142 25241: gap of unknown length

*	25242	26668: contig of 1427 bp in length
*	26669	26768: gap of unknown length
*	26769	28506: contig of 1738 bp in length
*	28507	28606: gap of unknown length
*	28607	30429: contig of 1823 bp in length
*	30430	30529: gap of unknown length
*	30530	32570: contig of 2041 bp in length
*	32571	32670: gap of unknown length
*	32671	34029: contig of 1359 bp in length
*	34030	44129: gap of unknown length
*	34130	36411: contig of 2282 bp in length
*	36412	36511: gap of unknown length
*	36512	38475: contig of 1964 bp in length
*	38476	38575: gap of unknown length
*	38576	40562: contig of 1987 bp in length
*	40563	40662: gap of unknown length
*	40663	42221: contig of 1559 bp in length
*	42222	42321: gap of unknown length
*	42322	45005: contig of 2684 bp in length
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*	45106	46300: contig of 1195 bp in length
*	46301	46400: gap of unknown length
*	46401	48411: contig of 2011 bp in length
*	48412	48511: gap of unknown length
*	48512	51544: contig of 3033 bp in length
*	51545	51644: gap of unknown length
*	51645	55142: contig of 3498 bp in length
*	55143	55242: gap of unknown length
*	55243	58168: contig of 2926 bp in length
*	58169	58268: gap of unknown length
*	58269	60879: contig of 2611 bp in length
*	60880	60979: gap of unknown length
*	60980	63070: contig of 2091 bp in length
*	63071	63170: gap of unknown length
*	63171	65129: contig of 1959 bp in length
*	65130	65229: gap of unknown length
*	65230	68519: contig of 3290 bp in length
*	68520	68619: gap of unknown length
*	68620	71830: contig of 3201 bp in length
*	71821	71920: gap of unknown length
*	71921	77299: contig of 5379 bp in length
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*	77400	81762: contig of 4363 bp in length
*	81763	81862: gap of unknown length
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*	86383	86482: gap of unknown length
*	86483	90542: contig of 4060 bp in length
*	90543	90642: gap of unknown length
*	90643	95533: contig of 4891 bp in length
*	95534	95633: gap of unknown length
*	95634	101752: contig of 6119 bp in length
*	101753	101852: gap of unknown length
*	101853	108908: contig of 7055 bp in length
*	108909	109008: gap of unknown length
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*	115482	115581: gap of unknown length
*	115582	122306: contig of 6725 bp in length
*	122307	122406: gap of unknown length
*	122407	130001: contig of 7595 bp in length
*	130002	130101: gap of unknown length
*	130102	138191: contig of 8090 bp in length
*	138192	138291: gap of unknown length
*	138292	150672: contig of 12381 bp in length
*	150673	150772: gap of unknown length
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Query Match 85.0%; Score 17; DB 2; Length 163273;
 Best Local Similarity 100.0%; Pared No. 22;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGAGAGAAACAAGTC 18
 DB 66325 CTTAGAGAGAAACAAGTC 66309

RESULT 17
 AC113548/c
 LOCUS
 DEFINITION
 AC113548
 AC113548.5 GI:28913170
 HTG: HTGS_PHASE1: HTGS_DRAFT.
 SOURCE
 ORGANISM
 Mus musculus (house mouse)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 193466)
 Birren, B., Nussbaum, C. and Lander, E.
 Mus musculus, clone RP23-268F15
 Unpublished
 2 (bases 1 to 193466)
 Birren, B., Linton, L., Nussbaum, C., Lander, E., All, A., Allen, N.,
 Anderson, S., Barna, N., Bastien, V., Boguslavsky, L., Boukhalter, B.,
 Brown, A., Camarata, J., Campiano, A., Chang, J., Chazaro, B.,
 Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cook, A.,
 Cooke, P., Dearellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S.,
 Ferreira, P., Fitzhugh, W., Gage, D., Galagan, J., Gardyna, S.,
 Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-Pierre, N.,
 Hages, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C.,
 Kamat, A., Karatas, A., Kells, C., LaRoque, K., Lamazares, R.,
 Landers, T., Lehoczy, J., Levine, R., Liu, G., Maclean, C.,
 Macdonald, P., Major, J., Margus, N., Matthews, C., McCarthy, M.,
 McEwan, P., McKernan, K., Meldrum, J., Meneus, L., Mihova, T.,
 Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C.,
 Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J.,
 Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C.,
 Retta, R., Rieback, M., Riley, R., Rise, C., Rogov, P., Roman, J.,
 Roselli, M., Roy, A., Santos, R., Schauer, S., Schupack, R., Seaman, S.,
 Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N.,
 Strauss, K., Subramanian, A., Talamas, J., Testaye, S., Theodore, J.,
 Topham, K., Travers, M., Travis, N., Trigilio, J., Vasilev, H.,
 Viel, R., Vo, A., Wilson, B., Wu, X., Wymann, D., Ye, W.J., Young, G.,
 Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

TITLE
 JOURNAL
 REFERENCE
 AUTHORS
 Submitted (01-MAR-2002) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 3 (bases 1 to 193466)
 Birren, B., Nussbaum, C., Lander, E., Abouelleil, A., Allen, N.,
 Anderson, S., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T.,
 Boguslavsky, L., Boukhalter, B., Camarata, J., Chang, J., Choepel, Y.,
 Collymore, A., Cook, A., Cooke, P., Corum, B., Dearellano, K.,
 Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Faro, S.,
 Ferreira, P., Fitzgerald, M., Gage, D., Galagan, J., Gardyna, S.,
 Graham, L., Grand-Pierre, N., Hages, B., Hasopian, D., Hages, B.,
 Hall, J., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C.,
 Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R.,
 Lindblad-Toh, K., Liu, G., Lui, A., Mabbitt, R., Maclean, C.,
 Macdonald, P., Major, J., Manning, J., Matthews, C., McCarthy, M.,
 Meldrum, J., Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J.,
 Nguyen, C., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P.,
 O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N.,
 Rachupka, A., Ramsamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P.,
 Roman, J., Schauer, S., Schupack, R., Seaman, S., Severy, P., Smith, C.,
 Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M.,
 Talamas, J., Testaye, S., Theodore, J., Topham, K., Travers, M.,
 Vasilev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X.,
 Wymann, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

TITLE
 JOURNAL
 COMMENT
 Submitted (11-MAR-2003) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Mar 11, 2003 this sequence version replaced gi:28626751.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997).
 http://ftp.genome.washington.edu/BM/RepeatMasker.html
 ----- Genome Center

STS
primer_bind 1. .204
primer_bind 1. .23
BASE COUNT 76 a 39 c 34 g 55 t
ORIGIN

Query Match 80.0%; Score 16; DB 11; Length 204;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGGAGGACAGT 17
|||||
7 CTTAGGAGGACAGT 22

RESULT 19
LOCUS AY079380 1555 bp mRNA linear PLN 18-SEP-2002
DEFINITION Arabidopsis thaliana unknown protein (At2g44020) mRNA, complete
cds.
ACCESSION AY079380 GI:19310760
VERSION AY079380.1 GI:19310760
KEYWORDS FLI CDNA.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eustosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (bases 1 to 1555)
Yamada, K., Liu, S.X., Sakano, H., Pham, P.K., Banh, J., Egu, P.,
Lee, J.M., Toriumi, M., Yu, G., Brooke, S., Chao, Q., Chen, H.,
Karlin-Neumann, G., Kim, C., Lam, B., Miranda, M., Nguyen, M.,
Palm, C.J., Shinn, P., Southwick, A., Davis, R.W., Ecker, J.R. and
Theologis, A.
Arabidopsis Open Reading Frame (ORF) Clones
Unpublished
2 (bases 1 to 1555)
Yamada, K., Banh, J., Chan, M.M., Chang, C.H., Chang, E., Dale, J.M.,
Deng, J.M., Goldsmith, A.D., Lee, J.M., Onodera, C.S., Quach, H.L.,
Tang, C.C., Toriumi, M., Wu, H.C., Yamamura, Y., Yu, G., Bowser, L.,
Carninci, P., Chen, H., Cheuk, R., Hayashizaki, Y., Ishida, J.,
Jones, T., Kamiya, A., Karlin-Neumann, G., Kawai, J., Kim, C., Lam, B.,
Lin, J., Meyers, M.C., Miranda, M., Narusaka, M., Nguyen, M., Palm, C.J.,
Sakurai, T., Satou, M., Seki, M., Shinn, P., Southwick, A.,
Shinozaki, K., Davis, R.W., Ecker, J.R. and Theologis, A.
Direct Submission
Submitted (19-FEB-2002) Plant Gene Expression Center, 800 Buchanan
Street, Albany, CA 94710, USA
JOURNAL The RIKEN Genomic Sciences Center (GSC) members carried out the
collection and clustering of RAFL cDNAs (RAFL cDNA : 'RIKEN
Arabidopsis Full-Length cDNA'): Seki, M., Narusaka, M., Ishida, J.,
Satou, M., Kamiya, A., Sakurai, T., Carninci, P., Kawai, J.,
Hayashizaki, Y. and Shinozaki, K.

TITLE The Sak, Stanford, PGEC (SSP) Consortium members constructed and
sequenced the pUNI (ORF) clones using the RAFL cDNAs: Yamada, K.,
Banh, J., Chan, M.M., Chang, C.H., Chang, E., Dale, J.M., Deng, J.M.,
Goldsmith, A.D., Lee, J.M., Onodera, C.S., Quach, H.L., Tang, C.C.,
Toriumi, M., Wu, H.C., Yamamura, Y., Yu, G., Bowser, L., Chen, H.,
Cheuk, R., Jones, T., Karlin-Neumann, G., Kim, C., Lam, B., Lin, J.,
Meyers, M.C., Miranda, M., Nguyen, M., Palm, C.J., Shinn, P.,
Southwick, A., Davis, R.W., Ecker, J.R. and Theologis, A.

FEATURES
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1. .1555
Location/Qualifiers
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/mol_type="mRNA"

gene
CDS
1. .1555
/gene="At2g44020"
1. .1524
/gene="At2g44020"
/codon_start=1
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/product="unknown protein"
/protein_id="AA18511.1"
/db_xref="GI:19310761"
/translation="MSYLLRRKRFVALLKROSLIPITSTEAKTLINPDNIPQFONP
CSIRIAHAATQSSKPEPEPTVWGVGQKKEKLNVRKICDYLKIGGIIITDELS
IELPSTIEWCERVFLOGLITIDINEPIPLMGCSVRKNIPLVATYEKIGISRSK
LGEFVKNPQVLAHVVELAPVAFKEDQDLGVLMKYPBELLGKLGTSWST
SVAYLVIGVSPRDIGPMVQYPIILGKRGVGMIRPLVDYLLISIGPKKIVARMEKR
SYIVGNLEETVKPNVDCISFGVKELPLILAQVPOILGLIPKAVKSTQYFSLK
LKIDEGFARVAKMPOIVSLKONVIMKPIEFLRGAFOVEDIARKVVRCPDILGRV
ELMKNSYFYKTEMRPKMELVIEPIFYTSLSRIKPRYQGLSKGRTSSINMPLNC
SDRFEERLQGNFIDPTIEGPTFDWGKLEMPGEIVTDEBESDDEVLYRRTLTLL"
1525. .1555
/gene="At2g44020"

3'UTR
BASE COUNT 463 a 271 c 372 g 449 t
ORIGIN

Query Match 80.0%; Score 16; DB 8; Length 1555;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGGAGGACAGT 17
|||||
13 CTTAGGAGGACAGT 28

RESULT 20
LOCUS AY039920 1767 bp mRNA linear PLN 18-SEP-2002
DEFINITION Arabidopsis thaliana unknown protein (At2g44020) mRNA, complete
cds.
ACCESSION AY039920 GI:14532591
VERSION AY039920.1 GI:14532591
KEYWORDS FLI CDNA.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eustosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (bases 1 to 1767)
Yamada, K., Liu, S.X., Sakano, H., Pham, P.K., Banh, J., Chung, M.K.,
Goldsmith, A.D., Lee, J.M., Quach, H.L., Toriumi, M., Yu, G., Bowser, L.,
Carninci, P., Chen, H., Cheuk, R., Hayashizaki, Y., Ishida, J.,
Jones, T., Kamiya, A., Karlin-Neumann, G., Kawai, J., Kim, C., Lam, B.,
Lin, J., Miranda, M., Narusaka, M., Nguyen, M., Palm, C.J., Sakurai, T.,
Satou, M., Seki, M., Shinn, P., Southwick, A., Shinozaki, K.,
Davis, R.W., Ecker, J.R. and Theologis, A.
Arabidopsis Full Length cDNA Clones
Unpublished
2 (bases 1 to 1767)
Yamada, K., Liu, S.X., Sakano, H., Pham, P.K., Banh, J., Chung, M.K.,
Dale, J.M., Gibson, H.A., Goldsmith, A.D., Jiang, P.X., Lee, J.M.,
Quach, H.L., Tang, C.C., Toriumi, M., Yu, G., Bowser, L., Carninci, P.,
Chen, H., Cheuk, R., Hayashizaki, Y., Ishida, J., Jones, T., Kamiya, A.,
Karlin-Neumann, G., Kawai, J., Kim, C., Koesema, E., Lam, B., Lin, J.,
Meyers, M.C., Miranda, M., Narusaka, M., Nguyen, M., Palm, C.J.,
Sakurai, T., Satou, M., Seki, M., Shinn, P., Southwick, A., Tracy, S.E.,
Shinozaki, K., Davis, R.W., Ecker, J.R. and Theologis, A.
Direct Submission
Submitted (07-JUN-2001) Plant Gene Expression Center, 800 Buchanan
Street, Albany, CA 94710, USA
JOURNAL The RIKEN Genomic Sciences Center (GSC) members carried out the

collection and clustering of RAFL cDNAs (RAFL cDNA : 'RIKEN Arabidopsis Full-length cDNA') : Seki,M., Narusaka,M., Ishida,J., Satou,M., Kamiya,A., Sakurai,T., Carninci,P., Kawai,J., Hayashizaki,Y. and Shinozaki,K.

The Salk, Stanford, PEGC (SSP) Consortium members carried out the sequencing and annotation of the RAFL cDNAs: Yamada,K., Liu,S.X., Sakano,H., Pham,P.K., Banh,J., Chung,M.K., Dale,J.M., Gibson,H.A., Goldsmith,A.D., Jiang,P.X., Lee,J.M., Quach,H.L., Tang,C.C., Toriumi,M., Yu,G., Bowser,L., Chen,H., Cheuk,R., Jones,T., Karlin-Neumann,G., Kim,C., Koesema,E., Lam,B., Lin,J., Meyers,M.C., Miranda,M., Nguyen,M., Palm,C.J., Shinn,P., Southwick,A., Tracy,S.E., Davis,R.W., Ecker,J.R. and Theologis,A.

Yamada,K. (SSP/PEGC) and Seki,M. (RIKEN GSC) contributed equally to this work. Shinozaki,K. (RIKEN GSC) and Theologis,A. (SSP/PEGC) contributed equally to this work as PIs.

Annotation is based on the January 2002 version of the Arabidopsis genome submitted to GenBank.

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ecotype: Columbia"
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126..1649
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CDS

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Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 138 CTTAGAGGAACAAGT 153

RESULT 21
AX151433 2376 bp DNA linear PAT 22-JUN-2001
LOCUS AX151433
DEFINITION Sequence 38 from Patent WO0138351.
ACCESSION AX151433
VERSION AX151433.1 GI:14533498
KEYWORDS
SOURCE Shrimp white spot syndrome virus
ORGANISM Shrimp white spot syndrome virus

REFERENCE
AUTHORS
TITLE
JOURNAL

1
Xu,X., Yang,F., He,J., Pham,L.Z., He,M., Ye,Y., Shen,Y. and Kodira,C.
Nucleotide sequence of the shrimp white spot syndrome bacilliform virus (wsbv), systems containing this sequence and detection kits Patent: WO 0138351-A 38 31-MAY-2001;
PE Corporation (NY) (US) ; The Third Institute of Oceanography, State Oceanic Administration (CN) ; Sinogenomax Co., Ltd. (CN)

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/mol_type="genomic DNA"
/db_xref="taxon:92652"

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Best local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 22
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DEFINITION Human mRNA for KIAA0382 gene, partial cds.
ACCESSION AB002380
VERSION AB002380.1 GI:2224704
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL

1
Nagase,T., Ishikawa,K., Nakajima,D., Ohira,M., Seki,N., Miyajima,N., Tanaka,A., Kotani,H., Nomura,N. and Ohara,O.
Prediction of the coding sequences of unidentified human genes. VII. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro
DNA Res. 4 (2), 141-150 (1997)
97349984
9205841
2 (bases 1 to 6203)
Ohara,O., Nagase,T., Kikuno,R. and Nomura,N.
Direct Submission
Submitted (28-MAR-1997) Osamu Ohara, Kazusa DNA Research Institute;
1532-3, Yana, Kisarazu, Chiba 292-0812, Japan
(E-mail:cdnainfo@kazusa.or.jp, Tel:+81-438-52-3913)

FEATURES
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Location/Qualifiers

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1..2255
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/db_xref="GI:2224705"

LOCUS KIAA0382
DEFINITION KIAA0382, partial cds.
ACCESSION KIAA0382
VERSION KIAA0382.1
KEYWORDS
SOURCE Human
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

QY 5 AGGAGACAAGTCCC 20
 Db 5368 AGGAGACAAGTCCC 5363
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 AF520762 32813 bp DNA linear PRI 20-JUN-2002
 LOCUS AF520762
 DEFINITION Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 2 (XRCC2) gene, complete cds.
 ACCESSION AF520762
 VERSION AF520762.1 GI:21489901
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 32813)
 Rieder,M.J., Livingston,R.J., Braun,A.C., Montoya,M.A., Chung,M.-W., Miyamoto,K.E., Nguyen,C.P., Nguyen,D.A., Poel,C.L., Robertson,P.D., Schackwitz,W.S., Sherwood,J.K., Witrak,L.A. and Nickerson,D.A.
 TITLE Direct Submission
 JOURNAL Submitted (11-JUN-2002) Genome Sciences, University of Washington, 1705 NE Pacific, Seattle, WA 98195, USA
 COMMENT To cite this work please use: NIEHS-SNPs, Environmental Genome Project, NIEHS ES15478, Department of Genome Sciences, Seattle, WA (URL: <http://egp.gs.washington.edu>).
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 variation 977
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RESULT 26

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VERSION      AC005203.1      GI:3273381
KEYWORDS      HTG.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
REFERENCE      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS      Ricke,D.O.
TITLE      Large Scale Sequence Analysis and Annotation with the Sequence
JOURNAL      Comparison Analysis (SCAN) System
REFERENCE      2 (bases 1 to 41308)
AUTHORS      Ricke,D.O., Bruce,D., Mundt,M., Doggett,N., Munk,C., Saunders,E.,
Robinson,D., Jones,M., Buckingham,J., Chasteen,L., Thompson,S.,
Goodwin,L., Bryant,J., Tesmer,J., Meincke,L., Longmire,J.,
White,S., Ueng,S., Tatum,O., Campbell,C., Fawcett,J., Malbie,M.,
Mistra,M. and Deaven,L.
TITLE      Sequencing of Human Chromosome 16p13.3
JOURNAL      Unpublished
REFERENCE      3 (bases 1 to 41308)
AUTHORS      Ricke,D.O., Bruce,D., Mundt,M., Doggett,N., Munk,C., Saunders,E.,
Robinson,D., Jones,M., Buckingham,J., Chasteen,L., Thompson,S.,
Goodwin,L., Bryant,J., Tesmer,J., Meincke,L., Longmire,J.,
White,S., Ueng,S., Tatum,O., Campbell,C., Fawcett,J., Malbie,M.,
Mistra,M. and Deaven,L.
TITLE      Direct Submission
JOURNAL      Submitted (30-JUN-1998) Center for Human Genome Studies, DOE Joint
Genome Institute, Los Alamos National Laboratory, MS M888, Los
Alamos, NM 87545, USA
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SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 68589)
 AUTHORS Birren, B., Linton, L., Nusbaum, C. and Lander, E.
 TITLE Homo sapiens chromosome 18, clone RP11-886K22
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 68589)
 AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, S.,
 Barna, N., Baeten, V., Boguslavsky, L., Bouckgalter, B., Brown, A.,
 Camarata, J., Campopiano, A., Choepel, Y., Colangelo, M., Collins, S.,
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 Wilson, B., Wu, X., Wyman, D., Ye, W.-J., Young, G., Zainoun, D.,
 Zembek, L., Zimmer, A. and Zody, M.
 Submitted (15-JAN-2001) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html
 ----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L12306
 Center clone name: 886_K_22

 * NOTE: This record contains 85 individual
 * sequencing reads that have not been assembled into
 * contigs. Runs of N are used to separate the reads
 * and the order in which they appear is completely
 * arbitrary. Low-pass sequence sampling is useful for
 * identifying clones that may be gene-rich and allows
 * overlap relationships among clones to be deduced.
 * However, it should not be assumed that this clone
 * will be sequenced to completion. In the event that
 * the record is updated, the accession number will
 * be preserved.
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* 50845 51534: contig of 690 bp in length
* 51535 51634: gap of 100 bp
* 51635 52348: contig of 714 bp in length
* 52349 52448: gap of 100 bp
* 52449 53193: contig of 744 bp in length
* 53193 53292: gap of 100 bp
* 53293 53930: contig of 638 bp in length
* 53931 54030: gap of 100 bp
* 54031 54736: contig of 706 bp in length
* 54737 54836: gap of 100 bp
* 54837 55531: contig of 635 bp in length
* 55532 55631: gap of 100 bp

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Query Match      80.0%; Score 16; DB 2; Length 68589;
Best Local Similarity 100.0%; Pred. No. 88;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Oy 5 AGGAGGAACAGTCCC 20
    |||||
Db 63479 AGGAGGAACAGTCCC 63464

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RESULT 28
AC003109 76850 bp DNA linear PRI 17-MAR-1998
LOCUS Human DNA from overlapping chromosome 7 PAC and PI clones
DEFINITION containing the XRCC2 gene, genomic sequence, complete sequence.
ACCESSION AC003109
VERSION AC003109.1 GI:2961444
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 76850)
AUTHORS Liu,N., Lamerdin,J.S., Tebbe,R.S., Schild,D., Tucker,J.D., Shen,R.,
Brookman,K.W., Siciliano,M.J., Walter,C.A., Fan,W., Narayana,L.S.,

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FEATURES
source
1. 76850
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="7"
/map="7q36"
/clone="hXRCC2"
/note="PI clone 7515 obtained from Genome Systems (library
constructed from male foreskin-derived fibroblast line).
PAC clone 13620 obtained from Genome Systems (library
constructed from male leukocytes by P. de Jong)."
2. 208
/rpt_family="Alu"
/complement(209..272)
/rpt_family="MER42"
/rpt_family="Alu"
/complement(380..442)
/rpt_family="Alu"
/complement(497..813)
/rpt_family="L1"
/complement(825..1106)
/rpt_family="Alu"
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/rpt_family="Alu"
/complement(1789..1899)
/rpt_family="L1"
2034..2157
/rpt_family="Alu"
2731..3063
/rpt_family="Alu"
/complement(3549..3789)
/rpt_family="Alu"
4236..33903
/product="XRCC2"
/note="3'-UTR contains multiple repetitive elements."
4322..31759
/gene="XRCC2"
/note="X-ray repair cross-complementing DNA repair gene"
join(4322..4360,19619..19700,31038..31759)
/gene="XRCC2"
/note="X-ray repair cross-complementing DNA repair
protein"
/codon_start=1
/product="XRCC2"
/protein_id="AAC05802.1"
/db_xref="GI:2961445"
/translation="MCSAFRRASGTELLARLGRSSLKIEBNLPADSPVHGDL
EFHGEPTGTETMLVH/TARCLPKSEGLEVEVLFTDTHFDM/LVTLLEHRSQ
SSBEIIKYICGRFLVYCSSTHLLTLVLSLEMPFCSHPLCLILDSLSAFWIDW
NGESVYLOESTRKSOCLEKLVNRYLVLPATTOIMOKASSSSSEPSHARRLD
VDDIRPYLLKAMQQLVKHMPFSKDDSSNQPSIVSRCLKSNLSKKHFFIIGSG
VERC"
5618..5774
/rpt_family="HSAT1"

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repeat_region

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repeat_region complement(5783. .6067)
/rpt_family="Alu"
repeat_region complement(6510. .6810)
/rpt_family="Alu"
repeat_region complement(6948. .7208)
/rpt_family="Alu"
repeat_region complement(8375. .8630)
/rpt_family="Alu"
repeat_region complement(8887. .9129)
/rpt_family="MER42"
repeat_region complement(9181. .9456)
/rpt_family="Alu"
repeat_region complement(9515. .9795)
/rpt_family="Alu"
repeat_region complement(10709. .10968)
/rpt_family="Alu"
repeat_region complement(12008. .12076)
/rpt_family="MER44C"
repeat_region complement(12109. .12326)
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repeat_region complement(12359. .12632)
/rpt_family="Alu"
repeat_region complement(12978. .13268)
/rpt_family="Alu"
repeat_region complement(13495. .13780)
/rpt_family="Alu"
repeat_region complement(13900. .14183)
/rpt_family="Alu"
repeat_region complement(14641. .14913)
/rpt_family="Alu"
repeat_region complement(15901. .16104)
/rpt_family="MLT2B2"
repeat_region complement(16576. .16844)
/rpt_family="Alu"
repeat_region complement(17529. .17829)
/rpt_family="Alu"
repeat_region complement(18140. .18430)
/rpt_family="Alu"
repeat_region complement(19259. .19503)
/rpt_family="Alu"
misc_feature complement(20710. .20887)
/note="BLASTX similarity to (1088. .1146): match: 0.45,
score: 9.0e-06; database searched: nr; hypothetical
protein (L1H 3' region) - human"
repeat_region complement(20942. .21055)
/rpt_family="Alu"
repeat_region complement(21253. .21526)
/rpt_family="L1"
repeat_region complement(21931. .22256)
/rpt_family="Alu"
repeat_region complement(22264. .22440)
/rpt_family="Alu"
repeat_region complement(22820. .23070)
/rpt_family="Alu"
repeat_region complement(23153. .23436)
/rpt_family="Alu"
repeat_region complement(24031. .24148)
/rpt_family="Alu"
repeat_region complement(24205. .24387)
/rpt_family="L1"
repeat_region complement(24404. .24958)
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repeat_region complement(26186. .26513)
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repeat_region complement(26621. .26930)
/rpt_family="Alu"
repeat_region complement(27018. .27365)
/rpt_family="THE1"
repeat_region complement(28211. .28504)
/rpt_family="Alu"
repeat_region complement(28597. .28774)

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repeat_region complement(29170. .29452)
/rpt_family="Alu"
repeat_region complement(29487. .29781)
/rpt_family="Alu"
misc_feature complement(31037. .31372)
/gene="XRCC2"
/note="BLASTN similarity to Y08837 (1. .336): match: 0.99,
score: 7.0e-130; database searched: nr; H. sapiens mRNA for
RAD51-like protein-Other overlapping matches:
BLASTX similarity to PID (93. .149, 206. .243): match: 0.43,
score: 9.7e-06; database searched: nr; (Y13144) Rad51
homologue [Trypanosoma brucei]-BLASTX similarity to
226221 (101. .162): match: 0.43, score: 1.8e-06; database
searched: nr; (U92068) RecA-like protein [Mus musculus]"
repeat_region complement(31829. .32256)
/rpt_family="Alu"
repeat_region complement(32533. .33613)
/rpt_family="L1"
repeat_region complement(32880. .33124)
/note="predicted exon, program: grail2exons_human_1.3,
frame: 1, quality: good, score: 67.000"
repeat_region complement(33635. .33888)
/rpt_family="Alu"
repeat_region complement(33903. .34050)
/rpt_family="L1"
repeat_region complement(34480. .34609)
/rpt_family="Alu"
repeat_region complement(35004. .35121)
/rpt_family="Alu"
misc_feature complement(36278. .36522)
/note="DBS similarity to AA255626 2831f06.s1 NCI-CGAP GCBI
Homo sapiens cDNA clone 666819 3' similar to contains Alu
repetitive element; contains element LTRB repetitive
element; (186. .427); 96% identity."
repeat_region complement(36396. .36646)
/rpt_family="Alu"
repeat_region complement(36742. .37029)
/rpt_family="Alu"

Query Match 80.0%; Score 16; DB 9; Length 76850;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGGAACAAGTCCC 20
Db 27146 AGGAGGAACAAGTCCC 27161

RESULT 29
AX646415 84510 bp DNA linear PAT 04-MAR-2003
LOCUS Sequence 607 from Patent EP1270724.
DEFINITION AX646415
ACCESSION AX646415
VERSION AX646415.1 GI:28798796
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS Suwa,M., Asai,K., Akiyama,Y. and Aburatani,H.
TITLE Guanosine triphosphate-binding protein coupled receptors
JOURNAL Patent: EP 1270724-A 607 02-JAN-2003;
National Institute of Advanced Industrial Science and Technology
(JP) ; Center for Advanced Science and Technology Incubation, Ltd.

FEATURES
source Location/Qualifiers
1. 84510
/organism="Homo sapiens"
/mol_type="genomic DNA"

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* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.
1      892: contig of 892 bp in length
*      893      1775: contig of 883 bp in length
*      1776      2661: contig of 886 bp in length
*      2662      3541: contig of 880 bp in length
*      3542      4409: contig of 868 bp in length
*      4410      5262: contig of 853 bp in length
*      5263      6130: contig of 868 bp in length
*      6131      7001: contig of 871 bp in length
*      7002      7886: contig of 885 bp in length
*      7887      8736: contig of 850 bp in length
*      8737      9619: contig of 883 bp in length
*      9620      10511: contig of 892 bp in length
*      10512      11388: contig of 877 bp in length
*      11389      12279: contig of 891 bp in length
*      12280      13165: contig of 886 bp in length
*      13166      14075: contig of 910 bp in length
*      14076      14942: contig of 867 bp in length
*      14943      15818: contig of 876 bp in length
*      15819      16711: contig of 893 bp in length
*      16712      17653: contig of 942 bp in length
*      17654      18496: contig of 843 bp in length
*      18497      19400: contig of 904 bp in length
*      19401      20249: contig of 849 bp in length
*      20250      21108: contig of 859 bp in length
*      21109      21965: contig of 857 bp in length
*      21966      22898: contig of 933 bp in length
*      22899      23813: contig of 915 bp in length
*      23814      24754: contig of 941 bp in length
*      24755      25644: contig of 890 bp in length
*      25645      26516: contig of 872 bp in length
*      26517      27470: contig of 954 bp in length
*      27471      28376: contig of 906 bp in length
*      28377      29249: contig of 873 bp in length
*      29250      30166: contig of 917 bp in length
*      30167      31093: contig of 927 bp in length
*      31093: gap of unknown length

*      31094      32006: contig of 913 bp in length
*      32007      32914: contig of 908 bp in length
*      32915      33811: contig of 897 bp in length
*      33812      34686: contig of 875 bp in length
*      34687      35582: contig of 896 bp in length
*      35583      36464: contig of 882 bp in length
*      36465      37359: contig of 895 bp in length
*      37360      38314: contig of 955 bp in length
*      38315      39271: contig of 957 bp in length
*      39272      40263: contig of 992 bp in length
*      40264      41307: contig of 1044 bp in length
*      41308      42294: contig of 987 bp in length
*      42295      43308: contig of 1014 bp in length
*      43309      44254: contig of 946 bp in length
*      44255      45242: contig of 988 bp in length
*      45243      46294: contig of 1052 bp in length
*      46295      47278: contig of 984 bp in length
*      47279      48315: contig of 1037 bp in length
*      48316      49271: contig of 956 bp in length
*      49272      50286: contig of 1015 bp in length
*      50287      51235: contig of 949 bp in length
*      51236      52294: contig of 1059 bp in length
*      52295      53307: contig of 1013 bp in length
*      53308      54384: contig of 1077 bp in length
*      54385      55433: contig of 1049 bp in length
*      55434      56428: contig of 996 bp in length
*      56430      57414: contig of 985 bp in length
*      57415      58419: contig of 1005 bp in length
*      58420      59378: contig of 959 bp in length
*      59379      60349: contig of 971 bp in length
*      60350      61324: contig of 975 bp in length
*      61325      62374: contig of 1050 bp in length
*      62375      63342: contig of 968 bp in length
*      63343      64279: contig of 937 bp in length
*      64280      65353: contig of 1074 bp in length
*      65354      66383: contig of 1030 bp in length
*      66384      67403: contig of 1020 bp in length
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Query Match      80.0%; Score 16; DB 2; Length 94357;
Best Local Similarity 100.0%; Pred. No. 82;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      5 AGGAGAACAACTGCC 20
Db      11338 AGGAGAACAACTGCC 11332

RESULT 32
AP000032/c AP000032 100000 bp DNA linear PRI 20-NOV-1999
DEFINITION Homo sapiens genomic DNA, chromosome 21q22.1, segment 3/8, complete sequence.
ACCESSION AP000032
VERSION AP000032.1 GI:11332342
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 100000)
AUTHORS Hattori,M., Ishii,K., Toyoda,A., Shiba,T. and Sakaki,Y.
TITLE Homo sapiens genomic DNA, chromosome 21q
JOURNAL Published Only in Database (1998)
REFERENCE 2 (bases 1 to 100000)
AUTHORS Hattori,M., Ishii,K., Toyoda,A., Shiba,T. and Sakaki,Y.
TITLE Direct Submission
JOURNAL Submitted (11-MAY-1998) Masahira Hattori, Kitasato University, Department of Science, JST Sequencing Laboratory; Kitasato 1-15-1, Sagami-hara 228, Japan (E-mail:hattori@gc.ims.u-tokyo.ac.jp, Tel:0427-78-9732, Fax:0427-78-9561)
COMMENT This sequence is conducted by Kitasato University JST sequencing Laboratory as a JST sequencing team.
Principal Investigator:Yoshiyuki Sakaki Ph.D.
Phone: +81-3-5449-5622, Fax : +81-3-5449-5445, sakaki@gc.ims.u-tokyo.ac.jp
Sub-leader: Tadayoshi Shiba Ph.D., Masahira Hattori Ph.D. The sequence is submitted by Human Genome Sequencing in ALIS project of JST
Japan Science and Technology Corporation (JST)
5-3, Yonbancho, Chiyoda-Ku, Tokyo 102-0028 Japan
For further information about this sequence, including its location and relationship to other sequences, please visit our sequence archive Web site (http://www-alis.tokyo.jst.go.jp/HGS/top.html) or send email to webmaster@www-alis.tokyo.jst.go.jp.
location/Qualifiers
source 1..100000
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="21"
/map="21q22.1"
FEATURES
STS 1.100000
/note="SHGC-51923:The location is between each flanking site of PCR primers."
/db_xref="GDB:4458696"
/standard_name="D2S1413"
/note="UT7582.The location is between each flanking site of PCR primers."
/db_xref="GDB:315533"
11676..11835
/note="SHGC-51923:The location is between each flanking site of PCR primers."
/db_xref="GDB:646467"
11723..11855
/standard_name="D2S1224"
/note="KM838/KM839.The location is between each flanking site of PCR primers."
/db_xref="GDB:182624"
44121..44250
/note="SGC35207.The location is between each flanking site of PCR primers."
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STS /note="SHGC-51895;The location is between each flanking site of PCR primers." /db xref="GDB:6464619" 46239..46473 /standard name="D21S1879" /note="PrG-13419/PrG-13420;The location is between each flanking site of PCR primers." /db xref="GDB:598243" 53587..53745 /standard name="D21S1693" /note="134H10AR-F/134H10AR-R;The location is between each flanking site of PCR primers." /db xref="GDB:438493" 82233..82396 /note="SHGC-51815;The location is between each flanking site of PCR primers." /db xref="GDB:6464271" 27206 a 22604 c 22308 g 27882 t

BASE COUNT 27206 a 22604 c 22308 g 27882 t

ORIGIN

Query Match 80.0%; Score 16; DB 9; Length 100000; Best Local Similarity 100.0%; Pred. No. 81; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGGACAAGTCCC 20 |||||

Db 25561 AGGAGGACAAGTCCC 25576 |||||

RESULT 34

LOCUS AP000180 100000 bp DNA linear PRI 08-JAN-2000

DEFINITION Homo sapiens genomic DNA, chromosome 21q22.1, D21S226-AML region, clone Q78C10-f32E9, segment 7/21, complete sequence.

ACCESSION AF000180

VERSION AP000180.1 GI:4827079

KEYWORDS HTG.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 100000)

REFERENCE Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y. and Sakaki,Y. Homo sapiens 2,083,744bp genomic DNA of 21q22.1 (REGION: D21S226-AML CLONE RANGE: Q78C10-f32E9) Published Only in Database (1999)

JOURNAL 2 (bases 1 to 100000)

AUTHORS Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y. and Sakaki,Y. Direct Submission

TITLE Submitted (10-MAY-1999) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC), Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555, Japan (E-mail:hattori@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/, Tel:81-42-778-9923, Fax:81-42-778-9924)

COMMENT E.coli transposon insertion:The present data does not contain E. coli transposon sequences which integrated in the original/previous sequences. We determined the boundary between the insertion and genomic sequences experimentally, removed the insertion sequences, reconstituted the present data. The sequencing project is supported by Japan Science Technology Corporation (JST) and The Institute of Physical and Chemical Research (RIKEN). Location/Qualifiers

FEATURES

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organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /chromosome="21" /map="21q22.1" /gap="21q22.1" /map="21q22.1" 27206 a 22604 c 22308 g 27882 t

BASE COUNT 27206 a 22604 c 22308 g 27882 t

ORIGIN

Query Match 80.0%; Score 16; DB 9; Length 100000; Best Local Similarity 100.0%; Pred. No. 81; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGGACAAGTCCC 20 |||||

Db 25561 AGGAGGACAAGTCCC 25576 |||||

RESULT 35

LOCUS AP000681 109149 bp DNA linear HTG 30-MAY-2000

DEFINITION Homo sapiens chromosome 11 clone CMB9-2L13 map 11q23, WORKING DRAFT SEQUENCE, 13 unordered pieces.

ACCESSION AP000681.3 GI:8118869

VERSION AP000681

KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 109149)

REFERENCE Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y. Homo sapiens 109,149 genomic DNA of 11q23 Published Only in Database (1999)

JOURNAL 2 (bases 1 to 109149)

AUTHORS Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y. Direct Submission

TITLE Submitted (08-NOV-1999) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC), Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555, Japan (E-mail:hattori@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/, Tel:81-42-778-9923, Fax:81-42-778-9924)

COMMENT On May 31, 2000 this sequence version replaced gi:6997555. Genome Center

Center: RIKEN Genomic Sciences Center(GSC)

Center code: RIKEN

Web site: http://hgp.gsc.riken.go.jp/

Contact: hattori@gsc.riken.go.jp

Project Information

Center project name: Hmbdraf11

Center clone name: CMB9-2L13

Summary Statistics

Sequencing vector: PCR products; 100% of reads

Chemistry: Dye-terminator PCR products; 100% of reads

Assembly program: Phrap; version 0.990329

Consensus quality: 99833 bases at least Q40

Consensus quality: 104437 bases at least Q30

Consensus quality: 106696 bases at least Q20

Insert size: 107949; sum-of-contigs

Quality coverage: 4.90x in Q20 bases; sum-of-contigs

NOTE: This is a 'working draft' sequence. It currently consists of 13 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved

1 15418 contig of 15418 bp in length

15519 32589 contig of 17071 bp in length

32690 46533 contig of 13844 bp in length

46634 59641 contig of 13068 bp in length

59742 69969 contig of 10228 bp in length

70070 79400 contig of 9331 bp in length

79501 86689 contig of 7189 bp in length

86790 94162 contig of 7373 bp in length

94263 100141 contig of 5679 bp in length

100242 104375 contig of 4134 bp in length

104476 107052 contig of 2577 bp in length
 107153 108671 contig of 1519 bp in length
 108772 109149 contig of 378 bp in length
 Sequence updated (01-Feb-2000)
 Sequence updated (26-May-2000).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 13 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 15418: contig of 15418 bp in length
 15419 15518: gap of 100 bp
 15519 32589: contig of 17071 bp in length
 32590 32689: gap of 100 bp
 32690 46533: contig of 13844 bp in length
 46534 46633: gap of 100 bp
 46634 59641: contig of 13008 bp in length
 59642 59741: gap of 100 bp
 59742 69869: contig of 10228 bp in length
 69870 70069: gap of 100 bp
 70070 79400: contig of 9331 bp in length
 79401 79500: gap of 100 bp
 79501 86689: contig of 7189 bp in length
 86690 94162: gap of 100 bp
 94163 94262: contig of 7373 bp in length
 94263 100141: contig of 5879 bp in length
 100142 100241: gap of 100 bp
 100242 104375: contig of 4134 bp in length
 104376 104475: gap of 100 bp
 104476 107052: contig of 2577 bp in length
 107053 107152: gap of 100 bp
 107153 108671: contig of 1519 bp in length
 108672 108771: gap of 100 bp
 108772 109149: contig of 378 bp in length.
 Location/Qualifiers

FEATURES

SOURCE

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 /db_xref="taxon:9606"
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 32690. .46533
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 46634. .59641
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 70070. .79400
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 /note="assembly_fragment"
 108772. .109149
 /note="assembly_fragment clone_end:T7 vector_side:right"
 BASE COUNT 32146 a 20393 c 21206 g 34199 t 1205 others

ORIGIN

Query Match 80.0%; Score 16; DB 2; Length 109149;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CTTAGGAGGAACAAGT 17

Db 73711 CTTAGGAGGAACAAGT 73726

Search completed: August 15, 2003, 09:33:56
 Job time : 555.75 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 14, 2003, 21:41:37 ; Search time 1252 Seconds
(without alignments)
388.250 Million cell updates/sec

Title: US-10-074-620-2
Perfect score: 20
Sequence: 1 ccttagagagacaacgccc 20

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 22781392 seqs, 12152238056 residues

Word size : 0

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 120 summaries

Database :

EST:
1: em_estdb:*
2: em_estdb:*
3: em_estdb:*
4: em_estdb:*
5: em_estdb:*
6: em_estdb:*
7: em_estdb:*
8: em_estdb:*
9: gb_est1:*
10: gb_est2:*
11: gb_est3:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estfun:*
17: em_gss_hum:*
18: em_gss_hum:*
19: em_gss_hum:*
20: em_gss_hum:*
21: em_gss_hum:*
22: em_gss_hum:*
23: em_gss_hum:*
24: em_gss_hum:*
25: em_gss_hum:*
26: em_gss_hum:*
27: em_gss_hum:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Score	Query	Match	Length	ID	Description
1	85.0	676	10	BE964731	601658274	
2	85.0	817	10	BF142291	601791832	
3	80.0	200	12	BM751719	K-EST0027	
4	80.0	203	10	BE755758	BE755758 209682 MA	

5	80.0	242	14	Z42603	Z42603 HSCOP091 n
6	80.0	350	9	AU231688	AU231688 AU231688
7	80.0	358	14	R24852	R24852 YG29605.r1
8	80.0	390	28	AQ483201	AQ483201 RPT-11-2
9	80.0	395	5	A1696726	A1696726 w56d11.x
10	80.0	400	14	T75305	T75305 yc89c08.r1
11	80.0	413	28	AQ379270	AQ379270 RPT-11-15
12	80.0	431	9	AM769407	AM769407 h16312.x
13	80.0	443	10	BE227333	BE227333 894030E10
14	80.0	464	13	BY414889	BY414889 BY414889
15	80.0	476	14	R24326	R24326 YG32103.r1
16	80.0	487	10	BF830043	BF830043 MR3-HN005
17	80.0	494	14	R24340	R24340 YG32103.r1
18	80.0	516	10	BB693705	BB693705 BB693705
19	80.0	516	12	BG994855	BG994855 PMO-HT116
20	80.0	524	14	CA405555	CA405555 1001704.H
21	80.0	550	13	BQ347567	BQ347567 CM0-HT017
22	80.0	554	14	W52429	W52429 zc94e08.r1
23	80.0	591	12	BI751017	BI751017 T401_05d0
24	80.0	599	2	HS0095392	HS0095392 Homo sapi
25	80.0	615	9	AU137185	AU137185 AU137185
26	80.0	630	12	BI156614	BI156614 602921206
27	80.0	661	9	AV821593	AV821593 AV821593
28	80.0	668	12	BJ273261	BJ273261 B273261
29	80.0	703	13	BQ539794	BQ539794 PTM0102
30	80.0	740	13	BU635192	BU635192 003D06.In
31	80.0	745	12	BI115344	BI115344 602863159
32	80.0	871	10	BE869673	BE869673 6014445775
33	80.0	872	12	BI088175	BI088175 602851213
34	80.0	879	13	BU177008	BU177008 AGENCCOURT
35	80.0	884	10	BG740602	BG740602 602631028
36	80.0	886	10	BG501889	BG501889 602548991
37	80.0	900	13	BU509687	BU509687 AGENCCOURT
38	80.0	904	10	BE869754	BE869754 6014445669
39	80.0	942	13	BQ225365	BQ225365 AGENCCOURT
40	80.0	966	13	BQ277316	BQ277316 AGENCCOURT
41	80.0	978	9	AL536291	AL536291 AL536291
42	80.0	1201	9	AL546318	AL546318 AL546318
43	75.0	179	13	BY607541	BY607541 BY607541
44	75.0	193	28	BZ181647	BZ181647 CH230-340
45	75.0	205	28	BE59389	BE59389 CIT-HSP-201
46	75.0	280	10	BE055057	BE055057 GA_Ea003
47	75.0	286	10	BB450936	BB450936 BB450936
48	75.0	287	10	BE054889	BE054889 GA_Ea002
49	75.0	287	13	BQ403153	BQ403153 GA_Ea005
50	75.0	287	13	BQ412134	BQ412134 GA_Ea005
51	75.0	307	28	BH071600	BH071600 RPT-24-2
52	75.0	315	10	BB317883	BB317883 RPT-24-2
53	75.0	372	9	AA155221	AA155221 mr97c03.r
54	75.0	372	9	AA155224	AA155224 mr97c03.r
55	75.0	380	9	AA155220	AA155220 mr97c03.r
56	75.0	387	13	BY155062	BY155062 BY155062
57	75.0	413	9	AA155222	AA155222 mr97c04.r
58	75.0	421	28	AZ318410	AZ318410 IM0037P14
59	75.0	437	9	AA546043	AA546043 vk61c08.r
60	75.0	439	28	BH705996	BH705996 BMDK80TR
61	75.0	452	28	AQ759784	AQ759784 HS_2257_A
62	75.0	453	9	AI333060	AI333060 qg17b11.x
63	75.0	460	14	N80106	N80106 yz87f02.r1
64	75.0	460	18	AZ802618	AZ802618 2M0061003
65	75.0	475	28	AZ943693	AZ943693 2M0204022
66	75.0	477	10	BE270306	BE270306 GA_EB000
67	75.0	481	10	BF957102	BF957102 QV4-NN114
68	75.0	487	13	BQ411430	BQ411430 GA_Ea002
69	75.0	489	28	BH076127	BH076127 RPT-24-2
70	75.0	494	10	BE721743	BE721743 189459 MA
71	75.0	496	28	AZ766878	AZ766878 1M0564A15
72	75.0	499	29	BZ925689	BZ925689 CH240_72D
73	75.0	505	28	AZ597111	AZ597111 1M0410113
74	75.0	510	9	AJ225437	AJ225437 AJ225437
75	75.0	519	9	AV856135	AV856135 AV856135
76	75.0	519	9	AV856135	AV856135 AV856135
77	75.0	523	28	AZ015440	AZ015440 RPT-23-3

78	15	75.0	524	10	BC440460	BC440460 GA_Ea000
C 79	15	75.0	537	28	AQ951596	AQ951596 Sheared B
C 80	15	75.0	538	28	AQ558274	AQ558274 HS 2066 B
C 81	15	75.0	542	14	CA873512	CA873512 K0325G05
C 82	15	75.0	555	13	BQ405699	BQ405699 GA_Ed008
C 83	15	75.0	555	13	BQ414368	BQ414368 GA_Ed008
C 84	15	75.0	556	28	A2079907	A2079907 RPT-23-4
C 85	15	75.0	560	28	A2625916	A2625916 1M0465C24
C 86	15	75.0	562	28	AQ788800	AQ788800 HS 3187 B
C 87	15	75.0	566	28	A2792636	A2792636 2M0045C15
C 88	15	75.0	573	28	A2625800	A2625800 1M0465F12
C 89	15	75.0	575	9	AV880832	AV880832 AV880832
C 90	15	75.0	577	13	BQ694428	BQ694428 L121n1197
C 91	15	75.0	582	28	BZ866748	BZ866748 CH240 269
C 92	15	75.0	592	28	AQ462877	AQ462877 HS 5212 A
C 93	15	75.0	597	10	BE402486	BE402486 CSB008D12
C 94	15	75.0	597	13	BQ608042	BQ608042 BRY_3943
C 95	15	75.0	601	9	AA422164	AA422164 2V31C01.1
C 96	15	75.0	606	10	BE288544	BE288544 601094160
C 97	15	75.0	607	29	AG150407	AG150407 Pan tcegl
C 98	15	75.0	609	9	AI927904	AI927904 wp03c07.x
C 99	15	75.0	611	29	BX133940	BX133940 Danilo rer
C 100	15	75.0	617	10	BQ441695	BQ441695 GA_Ea001
C 101	15	75.0	617	28	A2619332	A2619332 RPT-23-1
C 102	15	75.0	620	10	BQ442675	BQ442675 GA_Ea001
C 103	15	75.0	626	9	AV880047	AV880047 AV880047
C 104	15	75.0	626	28	BH059230	BH059230 RPT-24-3
C 105	15	75.0	628	13	BQ410892	BQ410892 GA_Ed003
C 106	15	75.0	630	13	BQ413572	BQ413572 GA_Ed007
C 107	15	75.0	634	10	BE985077	BE985077 UT-M-CCOP
C 108	15	75.0	636	13	BQ410893	BQ410893 GA_Ed003
C 109	15	75.0	636	10	BQ442578	BQ442578 GA_Ea001
C 110	15	75.0	640	13	BQ407961	BQ407961 GA_Ed000
C 111	15	75.0	640	13	BQ414737	BQ414737 GA_Ed009
C 112	15	75.0	641	28	A2113409	A2113409 RPT-23-4
C 113	15	75.0	643	9	A1585335	A1585335 VK61C08.Y
C 114	15	75.0	645	9	AV889725	AV889725 AV889725
C 115	15	75.0	646	9	AV856437	AV856437 AV856437
C 116	15	75.0	646	28	A2255189	A2255189 RPT-23-1
C 117	15	75.0	650	28	A2458615	A2458615 1M0262E23
C 118	15	75.0	651	13	BQ413525	BQ413525 GA_Ed007
C 119	15	75.0	652	10	BQ442693	BQ442693 GA_Ea001
C 120	15	75.0	653	10	BC072204	BC072204 H3107H11-

ALIGNMENTS

RESULT 1 BE964731 676 bp mRNA linear EST 14-DEC-2000
 LOCUS 601658374R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3885642 3',
 DEFINITION mRNA sequence.

ACCESSION BE964731
 VERSION BE964731.2 GI:11768351
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 TITLE NIH-MGC http://mgi.nci.nih.gov/
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT On Oct 3, 2000 this sequence version replaced gi:10575436.
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-rcmail.nih.gov
 Tissue Procurement: DCTD/DTF/Gazdar
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:

http://image.llnl.gov
 Plate: L1CM648 row: c column: 19
 High quality sequence stop: 227.
 Location/Qualifiers
 1..676
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:3885642"
 /tissue_type="large cell carcinoma, undifferentiated"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_69"
 /note="Organ: Lung; Vector: pCMV-SPORT6; Site: 1; Nct1;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.1 kb. Library constructed by Life
 Technologies."

BASE COUNT 139 a 138 c 193 g 206 t
 ORIGIN

Query Match 85.0%; Score 17; DB 10; Length 676;
 Best Local Similarity 100.0%; Pred. No. 23;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTAGAGGACACTCC 19
 Db 436 TTAGAGGACACTCC 452

RESULT 2 BF142291/c 817 bp mRNA linear EST 24-OCT-2000
 LOCUS BF142291/c 817 bp mRNA linear EST 24-OCT-2000
 DEFINITION 601791832P1 NCI_CGAP_Lu30 Mus musculus cDNA clone IMAGE:4022647 5',
 mRNA sequence.

ACCESSION BF142291
 VERSION BF142291.1 GI:10981241
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 TITLE NIH-MGC http://mgi.nci.nih.gov/
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-rcmail.nih.gov
 Tissue Procurement: Gilbert Smith, Ph.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: L1AM9279 row: p column: 08
 High quality sequence stop: 672.
 Location/Qualifiers
 1..817
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="IMAGE:4022647"
 /tissue_type="tumor, metastatic to mammary"
 /lab_host="DH10B"
 /clone_lib="NCI_CGAP_Lu30"
 /note="Organ: Lung; Vector: pCMV-SPORT6; Site: 1; Nct1;
 Site 2: SalI; transgenic model WNT-1, expression driven by
 MMTV-LTR enhancer; Cloned unidirectionally. Primer: Oligo
 dt. Library constructed by Life Technologies.
 Investigator providing samples: Gilbert Smith, NIH"

FEATURES

source

BASE COUNT 186 a 237 c 201 g 193 t
 ORIGIN

Query Match 85.0%; Score 17; DB 10; Length 817;
 Best Local Similarity 100.0%; Pred. No. 24;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTAGAGGAGAACAGT 17
 |||||
 Db 773 CCTAGAGGAGAACAGT 757

RESULT 3
 BM751719 200 bp mRNA linear EST 04-MAR-2002
 LOCUS BM751719

DEFINITION K-ST0027999 S9SNU601 Homo sapiens cDNA clone S9SNU601-24-D05 5',
 mRNA sequence.

ACCESSION BM751719 GI:19081351
 VERSION BM751719
 KEYWORDS

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 200)
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
 Oh,K.Y., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
 Kim,Y.S.

TITLE 21C Frontier Korean EST Project 2001
 JOURNAL Unpublished
 COMMENT Contact: Kim YS

Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kribb.re.kr
 Plate: 24 row: D column: 05
 High quality sequence stop: 200.

FEATURES
 source Location/Qualifiers
 1..200

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="S9SNU601-24-D05"
 /sex="M"
 /tissue_type="Ascites"
 /cell_type="Epithelial"
 /cell_line="SNU-601"
 /lab_host="Top10F"
 /clone_id="S9SNU601"
 /note="Organ: Stomach; Vector: pME18-FL3; Site 1: XhoI;
 Site 2: XhoI; The poly (A) + RNA was dephosphorylated with
 bacterial alkaline phosphatase (BAP) and then dephosphorylated
 with tobacco acid pyrophosphatase (TAP). The dephosphorylated
 intact mRNA was ligated with DNA-RNA linker including SfiI
 site by treatment of T4 RNA ligase and the first strand
 cDNA was synthesized with Superscript II using SfiI
 oligo-dT primer. After first strand synthesis, RNA was
 degraded by NaOH treatment and cDNA was amplified by PCR
 reaction. The PCR products were digested with SfiI and
 cloned into DraIII- digested pME18-FL3 vector. The
 obtained cDNA vectors were used for transformation of
 competent cells E. coli Top10F by electroporation method.
 The cDNA libraries constructed by this method are
 full-length enriched cDNA library."

BASE COUNT 73 a 34 c 37 g 56 t
 ORIGIN

Query Match 80.0%; Score 16; DB 12; Length 200;
 Best Local Similarity 100.0%; Pred. No. 65;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CTTAGAGGAGAACAGT 17
 |||||
 Db 92 CTTAGAGGAGAACAGT 107

RESULT 4
 BE755758 203 bp mRNA linear EST 25-APR-2001
 LOCUS BE755758

DEFINITION 209682 MARC 2BOV Bos taurus cDNA 5', mRNA sequence.
 ACCESSION BE755758
 VERSION BE755758.1 GI:10169750
 KEYWORDS

SOURCE Bos taurus (cow)
 ORGANISM Bos taurus

REFERENCE 1 (bases 1 to 203)
 Smith,T.P.L., Grose,W.M., Freking,B.A., Roberts,A.J., Stone,R.T.,
 Casas,E., Wray,J.E., White,J., Cho,J., Fahrenkrug,S.C., Bennett
 ,G.L., Heaton,M.P., Laegreid,W.W., Rohrer,G.A., Chitko-McKown,C.G.,
 Pertea,G., Holt,I., Karamycheva,S., Liang,F., Quackenbush,J. and
 Keefe,J.W.

TITLE Sequence evaluation of four pooled-tissue normalized bovine cDNA
 libraries and construction of a gene index for cattle

JOURNAL Genome Res. 11 (4), 626-630 (2001)
 MEDLINE 11282978
 PUBMED 11282978

COMMENT Contact: Smith TPL
 USDA, ARS, US Meat Animal Research Center
 PO Box 166, Clay Center, NE 68933-0166, USA
 Tel: 402 762 4366
 Fax: 402 762 4390
 Email: smithth@mail.marc.usda.gov

Single pass sequencing. Bases called and alt trimmed with phred
 v0.980904.e. Vector identified by cross_match with the -minscore 18
 and -mismatch 12 options.
 PCR primers
 FORWARD: AGGAACAGCTATGACCAT
 BACKWARD: GTTTCACGTCACGACG
 Plate: 59 row: L column: 7
 Seq primer: ATTGAGGACACTATAG.

FEATURES
 source Location/Qualifiers
 1..203

/organism="Bos taurus"
 /mol_type="mRNA"
 /db_xref="taxon:9913"
 /tissue_type="pooled"
 /lab_host="DH10B"
 /clone_id="MARC 2BOV"
 /note="Vector: pCMV SPORT6; Site 1: NotI; Site 2: SalI;
 library made from pooled tissue from testis, thymus,
 semitendinosus muscle, longissimus muscle, pancreas,
 adrenal, and endometrium."

BASE COUNT 70 a 29 c 48 g 56 t
 ORIGIN

Query Match 80.0%; Score 16; DB 10; Length 203;
 Best Local Similarity 100.0%; Pred. No. 65;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CTTAGAGGAGAACAGT 17
 |||||
 Db 102 CTTAGAGGAGAACAGT 117

RESULT 5
 Z42603 242 bp mRNA linear EST 10-NOV-1994
 LOCUS Z42603

DEFINITION HSCOPA091 normalized infant brain cDNA Homo sapiens cDNA clone
 c-09a09, mRNA sequence.

ACCESSION Z42603 GI:567353
 VERSION Z42603.1
 KEYWORDS

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Auffray, C., Behar, G., Bois, F., Bouchier, C., da Silva, C., Devignes, M.D., Duprat, S., Houligate, R., Jumeau, M.N., Lamy, B., Lorenzo, F., Mitchell, H., Mariage-Samson, R., Pietu, G., Pouliot, Y., Sebastiani-Kakatchis, C. and Tessier, A.
IMAGE: molecular integration of the analysis of the human genome and its expression
C. R. Acad. Sci. III. Sci. Vie 318 (2), 263-272 (1995)
JOURNAL MEDLINE 95277534
PUBMED 7757816
COMMENT Contact: Genethon
Genexpress-Genethon
Genethon Centre de recherche sur le Genome Humain
1, rue de l'Internationale, BP60 91002 EVRY Cedex, FRANCE
Tel: 33169472800
Fax: 33160778698
Email: genexpress@genethon.fr
Single read.
Genexpress_library_id: C; Genexpress_sequence_id: y1c-0pa09
Seq primer: (-21)M13 universal.
Location/Qualifiers
1. .242
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="c-0pa09"
/sex="Female"
/tissue_type="total brain"
/dev_stage="3 months old"
/clone_lib="normalized infant brain cDNA"
/note="Organ: brain; Vector: lambdafmd BA; Site 1: HindIII; Site 2: NotI; sex=Female; dev stage=3 months old; isolate=muscular atrophy patient; tissue_type=total brain; total mRNA was oligo-(dT) primed and directionally cloned 5' -> 3' into the HindIII -> NotI sites of the lambdafmd BA vector. Clone library from B.Saeres, Psychiatry Dept. Columbia University, USA. Normalization_method: Bento Soares, P.N.A.S in press"
BASE COUNT 88 a 42 c 43 g 69 t
ORIGIN

Query Match 80.0%; Score 16; DB 14; Length 242;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGACCACT 17
|||||
48 CTTAGGAGACCACT 63

RESULT 6
LOCUS AU231688 350 bp mRNA linear EST 21-SEP-2001
DEFINITION AU231688 Cloned bovine fetus cDNA Bos taurus clone Cln595 3', mRNA sequence.
ACCESSION AU231688
VERSION AU231688
KEYWORDS AU231688.1 GI:15719980
SOURCE EST.
ORGANISM Bos taurus (cow)
Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bovinae; Bos.
REFERENCE 1 (bases 1 to 350)
Taniguchi, Y., Lejukole, H.Y., Yamada, T., Akagi, S., Yasue, H. and Sasaki, Y.
TITLE Analysis of expressed sequence tags from a cDNA library of somatic nuclear transfer-derived cloned bovine fetus
JOURNAL Unpublished
COMMENT Contact: Takahisa Yamada
Graduate School of Agriculture

REFERENCE 1
AUTHORS Kyoto University
Saiyoku, Kitashirakawa, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-6323
Fax: 81-75-753-6340
Email: tyamada@kais.kyoto-u.ac.jp
This clone was obtained from a 3' end cDNA library.
IMAGE: molecular integration of the analysis of the human genome and its expression
C. R. Acad. Sci. III. Sci. Vie 318 (2), 263-272 (1995)
JOURNAL MEDLINE 95277534
PUBMED 7757816
COMMENT Contact: Genethon
Genexpress-Genethon
Genethon Centre de recherche sur le Genome Humain
1, rue de l'Internationale, BP60 91002 EVRY Cedex, FRANCE
Tel: 33169472800
Fax: 33160778698
Email: genexpress@genethon.fr
Single read.
Genexpress_library_id: C; Genexpress_sequence_id: y1c-0pa09
Seq primer: (-21)M13 universal.
Location/Qualifiers
1. .350
/organism="Bos taurus"
/mol_type="mRNA"
/db_xref="taxon:9913"
/clone="Cln595"
/dev_stage="fetus"
/clone_lib="Cloned bovine fetus cDNA"
/note="Organ: whole brain; Vector: lambdafmd BA; Site 1: NotI; Site 2: Hind III; 1st strand cDNA was primed with a NotI - oligo(dT) primer [5' ACTGGAAGATTGCGCGCAGGAAATTTTATTTTATTTT 3'];
BASE COUNT 101 a 70 c 83 g 92 t 4 others
ORIGIN

Query Match 80.0%; Score 16; DB 9; Length 350;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGACCACT 17
|||||
252 CTTAGGAGACCACT 267

RESULT 7
LOCUS R24852 358 bp mRNA linear EST 20-APR-1995
DEFINITION yg29e05.r1 Soares infant brain INIB Homo sapiens cDNA clone R24852
ACCESSION R24852
VERSION R24852.1 GI:779740
KEYWORDS EST.
SOURCE Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 358)
Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, R., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Tivakakis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.
The Washu-Merck EST Project
Unpublished
Contact: Wilson R.K
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 2215
High quality sequence stops: 284 Source: IMAGE Consortium, LNLN. This clone is available royalty-free through LNLN; contact the IMAGE Consortium (info@image.lnl.gov) for further information.
Insert Length: 2215 Std Error: 0.00
Seq primer: M13RPI
High quality sequence stop: 284.
Location/Qualifiers
1. .358
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:406151"
/db_xref="taxon:9606"
/clone="IMAGE:33804"
/sex="Female"
/dev_stage="73 days post natal"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares infant brain INIB"
/note="Organ: whole brain; Vector: lambdafmd BA; Site 1: NotI; Site 2: Hind III; 1st strand cDNA was primed with a NotI - oligo(dT) primer [5' ACTGGAAGATTGCGCGCAGGAAATTTTATTTTATTTT 3'];
BASE COUNT 101 a 70 c 83 g 92 t 4 others
ORIGIN

double-stranded cDNA was ligated to Hind III adaptors (Pharmacia), digested with Not I and directionally cloned into the Not I and Hind III sites of the lacMid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 112 a 64 c 68 g 112 t 2 others
ORIGIN

Query Match 80.0%; Score 16; DB 14; Length 358;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTGAGGAGCAACT 17
47 CTGAGGAGCAACT 62

RESULT 8
LOCUS AQ483201 390 bp DNA linear GSS 24-APR-1999
DEFINITION RPCI-11-241P16.TV RPCI-11 Homo sapiens genomic clone RPCI-11-241P16
' genomic survey sequence.

ACCESSION AQ483201 GI:4670605
VERSION AQ483201.1 GI:4670605
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo. 1 (bases 1 to 390)
AUTHORS Zhao, S., Adams, M.D., Niernan, W., Malek, J., de Jong, P. and Venter, J.C.

TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready Map Building
JOURNAL Unpublished
COMMENT Other GSSs: RPCI-11-241P16.TV
Contact: Shaying Zhao, William Niernan, Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850
Tel: 301 838 0200
Fax: 301 838 0208

Email: hbe@ligr.org
Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pde@edj.org.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering) or from Research Genet. cs (info@resgen.com). BAC end search page: http://www.ligr.org/cdb/hungen/bac_end_search/bac_end_search.html.
Seq primer: SP6
Classes: BAC ends.

FEATURES
Location/Qualifiers

1..390
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="GBB:7592535"
/db_xref="taxon:9606"
/clone="RPCI-11-241P16"
/sex="Male"
/cell_type="Tymphocytes"
/clone_lib="RPCI-11"
/note="Vector: pBACe3.6; Site 1: EcoRI; Site 2: EcoRI; RPCI11 Human Male BAC Library"

BASE COUNT 112 a 85 c 89 g 104 t
ORIGIN

Query Match 80.0%; Score 16; DB 28; Length 390;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGGAGCAAGTCCC 20
DB 289 AGGAGGAGCAAGTCCC 304

RESULT 9
LOCUS A1696726 395 bp mRNA linear EST 17-DEC-1999
DEFINITION wc56d11.x1 NCI CGAP Pr28 Homo sapiens cDNA clone IMAGE:232645 3' similar to contains ORF.t1 ORF ORF repetitive element ;, mRNA sequence.

ACCESSION A1696726
VERSION A1696726.1 GI:4984626
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo. 1 (bases 1 to 395)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapsb-remail.nih.gov
Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/IMLW at: www-bio.llnl.gov/bdip/image/image.html
Insert Length: 551 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 394.

FEATURES
Location/Qualifiers

1..395
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:232645"
/sex="male"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="NCI CGAP Pr28"
/note="Organ: prostate; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Plasmid DNA from the normalized library NCI CGAP Pr22 was prepared, and 85 clones were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clones 985608-986759, 1101192-1101959, and 1217928-1220615). Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 125 a 85 c 97 g 88 t
ORIGIN

Query Match 80.0%; Score 16; DB 9; Length 395;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGGAGCAAGTCCC 20
DB 84 AGGAGGAGCAAGTCCC 99

RESULT 10

T75305 400 bp mRNA linear EST 03-MAR-1995
LOCUS YC89C08.r1 Soares infant brain INIB Homo sapiens cDNA clone IMAGE:23341 5', mRNA sequence.

ACCESSION T75305
VERSION T75305.1 GI:692067
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 1 (bases 1 to 400)
 HILLIER, L., CLARK, N., DUBUQUE, T., ELLISTON, K., HAWKINS, M., HOLMAN
 M., HULTMAN, M., KUCABA, T., LE, M., LENNON, G., MARTIN, M., PARSONS, J.,
 RIFKIN, L., ROHLFING, T., SOARES, M., TAN, F., TREVASKIS, E., WATERSTON
 R., WILLIAMSON, A., WOHLDAMANN, P. and WILSON, R.
 The Washu-Merck EST Project
 JOURNAL
 COMMENT
 Unpublished
 Contact: Wilson RK
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@wustl.wustl.edu
 Insert Size: 2260
 High quality sequence stops: 318 Source: IMAGE Consortium, LNL
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 Insert Length: 2260 Std Error: 0.00
 Seq primer: M13RPI
 High quality sequence stop: 318.
 Location/Qualifiers
 1..400
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="GDB:395688"
 /db_xref="taxon:9606"
 /clone="IMAGE:23341"
 /sex="female"
 /dev_stage="73 days post natal"
 /lab_host="DH10B (ampicillin resistant)"
 /clone_lib="Soares Infant Brain INIB"
 /note="Organ: whole brain; Vector: Lactamid BA; Site_1: Not
 I; Site_2: Hind III; 1st strand cDNA was primed with a Not
 I - oligo(dT) primer [5',
 AACGTGAGAGATTGCGCGCCGACGAGATTGTTTTTTTTTTT 3'];
 double-stranded cDNA was ligated to Hind III adaptors
 (Pharmacia), digested with Not I and directionally cloned
 into the Not I and Hind III sites of the Lactamid BA vector.
 Library went through one round of normalization. Library
 constructed by Bento Soares and M. Patricia Bonaldo."

BASE COUNT 123 a 77 c 72 g 127 t 1 others
 ORIGIN

Query Match 80.0%; Score 16; DB 14; Length 400;
 Best Local Similarity 100.0%; Pred. No. 75;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGGAGGACAACT 17
 ||||||||||||
 Db 26 CTTAGGAGGACAACT 41

RESULT 11
 AQ379270 413 bp DNA linear GSS 20-MAY-1999
 LOCUS RPI11-151H4.TJ RPI1-11 Homo sapiens genomic clone RPI1-11-151H4,
 DEFINITION genomic survey sequence.
 ACCESSION AQ379270
 VERSION AQ379270.1 GI:4350293
 KEYWORDS GSS.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 1 (bases 1 to 413)
 Zhao, S., Adams, M. D., Niernan, W., Malek, J., de Jong, P. and Venter
 J. C.
 Use of BAC End Sequences from Library RPI1-11 for Sequence-Ready
 Map Building
 JOURNAL
 COMMENT
 Unpublished

COMMENT Other GSSs: RPI11-151H4.TJ
 Contact: Shaying Zhao, William Niernan, Mark Adams
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: hbe@tigr.org
 Clones are derived from the human BAC library RPI1-11. For BAC
 library availability, please contact Pieter de Jong
 (pieter@dejong.med.buffalo.edu). Clones may be purchased from
 BACPAC Resources (http://bacpac.med.buffalo.edu/ordering) or from
 Research Genetics (info@resgen.com). BAC end search page:
 http://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html
 Seq primer: SP6
 Class: BAC ends.

FEATURES
 source
 Location/Qualifiers
 1..413
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="GDB:7557771"
 /db_xref="taxon:9606"
 /clone="RPI1-11-151H4"
 /sex="Male"
 /cell_type="Lymphocytes"
 /clone_lib="RPI1-11"
 /note="Vector: pBAC3.6; Site_1: EcoRI; Site_2: EcoRI;
 RPI11 Human Male BAC library"
 BASE COUNT 124 a 92 c 92 g 104 t 1 others
 ORIGIN

Query Match 80.0%; Score 16; DB 28; Length 413;
 Best Local Similarity 100.0%; Pred. No. 76;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGAGGAGCAAGTCCC 20
 ||||||||||||
 Db 273 AGAGGAGCAAGTCCC 288

RESULT 12
 h163g12.x1 NCI CGAP Kid3 Homo sapiens cDNA clone IMAGE:3005926 3'
 LOCUS AW769407 431 bp mRNA linear EST 04-MAY-2000
 DEFINITION similar to confins_OPR.b1 OPR repetitive element ;, mRNA sequence.
 ACCESSION AW769407
 VERSION AW769407.1 GI:7701438
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 1 (bases 1 to 431)
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL
 COMMENT
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapsb-remail.nih.gov
 Tissue Procurement: Chris Moskalko, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D. CDNA Library Preparation: Life
 Technologies, Inc. CDNA Library Arrayed by: Christa Prange, The
 I.M.A.G.E. Consortium DNA Sequencing by: Washington University
 Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL, send email to:
 info@image.lnl.gov
 Possible reversed clone: polyT not found
 Seq primer: -40up from Gibco
 High quality sequence stop: 396.
 Location/Qualifiers
 1..431
 /organism="Homo sapiens"

/mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:3005926"
 /tissue_type="2 pooled Wilms' tumors, one primary and one metastatic to brain"
 /lab_host="DH10B"
 /clone_1fb="NCI CGAP Kid13"
 /note="Organ: kidney; Vector: PCMV-SPOrt6; Site 1: SalI; Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt. library constructed by Life Technologies."
 BASE COUNT 131 a 98 c 103 g 99 t
 ORIGIN
 Query Match 80.0%; Score 16; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 77;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 AGGAGGAACAAGTCCC 20
 |||||
 89 AGGAGGAACAAGTCCC 104
 RESULT 13
 BE227333 443 bp mRNA linear EST 06-JUL-2000
 LOCUS 894030E10.x3 C. reinhardtii CC-1690, normalized, lambda zap II
 DEFINITION Chlamydomonas reinhardtii cDNA, mRNA sequence.
 ACCESSION BE227333
 VERSION BE227333.1 GI:8932572
 KEYWORDS EST.
 SOURCE Chlamydomonas reinhardtii
 ORGANISM Chlamydomonas reinhardtii
 Eukaryota; Viridiplantae; Chlorophyta; Chlorophyceae; Volvocales; Chlamydomonadaceae; Chlamydomonas.
 1 (bases 1 to 443)
 Grossman, A., Davies, J., Federspiel, N., Harris, E., Lefebvre, P., McDermott, J. P., Silflow, C., Stern, D. and Surzycki, R.
 Analyses of the Chlamydomonas reinhardtii Genome: A Model, Unicellular System for Analyzing Gene Function and Regulation in Vascular Plants; project phase 2
 JOURNAL Unpublished
 COMMENT Contact: Elizabeth H. Harris
 DCMB Box 91000
 Durham, NC 27708-1000, USA
 Tel: 919 613 8164
 Fax: 919 613 8177
 Email: chlamy@duke.edu.
 FEATURES
 source
 1..443
 location/Qualifiers
 /organism="Chlamydomonas reinhardtii"
 /mol_type="mRNA"
 /strain="CC-1690 wild type mt+ 219r"
 /db_xref="taxon:3055"
 /clone_1fb="C. reinhardtii CC-1690, normalized, lambda zap II"
 /note="Vector: pBluescript II SK-; Site 1: EcoRI; Site 2: XhoI; This library, constructed by John Davies and Jeffrey McDermott, combines cDNAs from CC-1690 cells grown to mid-log phase in TAP (acetate-containing) medium in the light, TAP medium in the dark, HS (minimal) medium in ambient levels of CO2 and HS medium bubbled with 5% CO2. PolyA mRNA was purified from each sample, pooled and cDNA synthesized. The cDNA was directionally cloned into lambda ZAP II (Stratagene) in the EcoRI (5') and XhoI (3') sites. pBluescript II SK- plasmids were excised from the lambda ZAP clones by superinfection with Exsatis (Stratagene) phage. The library was normalized using method 4 described in Bonaldo et al (1996) Genome Research 6: 791-806."
 BASE COUNT 89 a 123 c 139 g 86 t
 ORIGIN
 Query Match 80.0%; Score 16; DB 10; Length 443;

Best Local Similarity 100.0%; Pred. No. 77;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 AGGAGGAACAAGTCCC 20
 |||||
 29 AGGAGGAACAAGTCCC 44
 RESULT 14
 BY414889 464 bp mRNA linear EST 13-DEC-2002
 LOCUS BY414889 RIKEN full-length enriched, 16 days embryo kidney Mus
 DEFINITION musculus cDNA clone 1920006j23 3', mRNA sequence.
 ACCESSION BY414889
 VERSION BY414889.1 GI:26679833
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 464)
 Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Sato, R., Suzuki, H., Yamanka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gogjoberi, T., Baldarelli, R., Hill, D. P., Butt, C., Hume, D. A., Quackenbush, J., Schriml, L. M., Kanapin, A., Matsuda, H., Batilov, S., Bissel, K. W., Blake, J. A., Bradt, P., Brusic, V., Chochoia, C., Corbani, L. E., Cousins, S., Dalla, E., Dragan, T. A., Fletcher, C. F., Forrest, A., Frazer, K. S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, J. J., Jarvis, E. D., Kanai, A., Kawai, H., Kawasawa, Y., Kedzierski, R. M., King, B. L., Konagaya, A., Kurochkin, I. V., Lee, Y., Lenhard, B., Lyons, P. A., Maglott, D. R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W. J., Pereira, G., Pesole, G., Petrovsky, N., Pillai, R., Pontius, J. U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J. C., Reed, D. J., Reid, J., Ring, B. Z., Ringwald, M., Sandelin, A., Schneider, C., Semple, C. A., Setou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M. S., Teasdale, R. D., Tomita, M., Verardo, R., Wagner, L., Wahlstedt, C., Wang, Y., Watanabe, Y., Wells, C., Wilming, L. G., Wyszynski, B. A., Yangisawa, M., Yang, L., Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P., Hayatsu, N., Hirozane-Kishikawa, T., Kono, H., Nakamura, M., Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E. S., Rogers, J., Birney, E. and Hayashizaki, Y.
 Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
 Nature 420, 563-573 (2002)
 JOURNAL 22354683
 MEDLINE 12466851
 COMMENT
 TITLE
 CONTACT Yoshitake Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suenho-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gs.c.riken.go.jp/
 URL: http://genome.gsc.riken.go.jp/
 Aizawa, K., Akimura, T., Arakawa, T., Carninci, P., Fukuda, S., Hirozane, T., Imotani, K., Ishii, Y., Itoh, M., Kawai, J., Kono, H., Miyazaki, A., Murata, M., Nakamura, M., Nomura, K., Numazaki, R., Ohno, M., Sakai, K., Sakazume, N., Sasaki, D., Sato, K., Shibata, K., Shiraki, T., Tagami, M., Waki, K., Watanabe, A., Watanabe, M. and Hayashizaki, Y. Direct Submission
 Computational Analysis of Full-length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome 12, 673-677 (2001)
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
 RIKEN integrated sequence analysis (RISA) system -384-format

No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

BASE COUNT 165 a 102 c 108 g 112 t
ORIGIN

Query Match 80.0%; Score 16; DB 10; Length 487;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGAGGAGCAACAGT 17

Db 483 CTTAGAGGAGCAACAGT 468

RESULT 17
R24340 494 bp mRNA linear EST 20-APR-1995
LOCUS YG32h03.r1 Soares infant brain INIB Homo sapiens cDNA clone
DEFINITION IMAGE:34200 5', mRNA sequence.
ACCESSION R24340
VERSION R24340.1 GI:779228
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 494)
Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rikkin, L., Rohlfing, T., Soares, M., Tan, F., Trevasakis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.
The WashU-Merck EST Project
Unpublished

TITLE JOURNAL
COMMENT Contact: Wilson RK
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu

Insert Size: 2185
High quality sequence stops: 325 Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 2185 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 325.
Location/Qualifiers

FEATURES
source 1: 494

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:406547"
/db_xref="taxon:9606"
/clone="IMAGE:34200"
/sex="female"
/dev_stage="73 days post natal"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares infant brain INIB"
/note="Organ: whole brain; Vector: Latmid BA; Site: 1: Not
I; Site 2: Hind III; 1st strand cDNA was primed with a Not
I - oligo(dT) primer [5',
AAGTGAAGATTCGCCGCCGAGCAATTTTCTTTTCTTTT 3'];
double-stranded cDNA was ligated to Hind III adaptors
(Pharmacia), digested with Not I and directionally cloned
into the Not I and Hind III sites of the Latmid BA vector.
Library went through one round of normalization. Library
constructed by Bento Soares and M. Patricia Bonaldo."

BASE COUNT 151 a 90 c 90 g 159 t 4 others
ORIGIN
Query Match 80.0%; Score 16; DB 14; Length 494;
Best Local Similarity 100.0%; Pred. No. 79;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2 CTTAGAGGAGCAACAGT 17
Db 47 CTTAGAGGAGCAACAGT 62

RESULT 18
BB693705/c 516 bp mRNA linear EST 10-OCT-2001
LOCUS BB693705 RIKEN full-length enriched, 2 days neonate sympathetic
ganglion Mus musculus cDNA clone 7120448G11 3', mRNA sequence.
DEFINITION BB693705
ACCESSION BB693705
VERSION BB693705.1 GI:16020438
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 516)
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS Akimura, T., Arakawa, T., Carninci, P., Furuno, M., Hangaki, T.,
Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Imotani, K., Ishii,
Y., Ito, M., Kawai, J., Kojima, Y., Kono, H., Kouda, M., Matsuyama, T.,
Nakamura, M., Nishi, K., Nomura, K., Numasaki, R., Okazaki, Y., Okido, T.,
Saito, R., Sakai, C., Sakai, K., Sakazume, N., Sasaki, D., Sato, K.,
Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagawa,
A., Takahashi, F., Takaku-Akai, S., Tanaka, T., Tomaru, A., Toyota,
T., Watanabe, A., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.
RIKEN Encyclopedia of Mouse Full-length cDNAs (Akimura, T., et al.
2001)

TITLE JOURNAL
COMMENT Unpublished
Contact: Yoshinobu Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center (GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsr.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh,
M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subcloning of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)

wagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,
Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura,
S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and
Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer. Genome Res.
10 (11), 1757-1771 (2000)
Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara,
Y. and Hayashizaki, Y.
Computer-based methods for the mouse full-length cDNA
encyclopedia: real-time sequence clustering for construction of a
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
Please visit our web site (http://genome.gsc.riken.go.jp) for
further details.
e mouse tissues.

FEATURES
source 1: 516

/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="7120448G11"
/sex="mixed"
/tissue_type="sympathetic ganglion"
/dev_stage="2 days neonate"
/lab_host="DH10B"
/clone_lib="RIKEN full-length enriched, 2 days neonate
sympathetic ganglion"

/note="Site 1: Sali; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer 5', GAGAGAGAGAGATCCAGAGCTCTTTTCTTTTCTTTTCTTTT 3', cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence 5', GAGAGAGAGATTCGAGTTAATTAATTAATTCCTCCCTCCCTCC 3'. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from lambda PUC I. Cloning sites, 5' end: Sali; 3' end: BamHI. Host: DH10B. -RNA was provided by Akira Nakagawara, Div. of Biochemistry, Chiba Cancer Center Research Institute, 666-2 Nitona, Chuoh-Ku, Chiba, 260-8717 Japan, whose assistance we gratefully acknowledge."

BASE COUNT

134 a 123 c 133 g 126 t

ORIGIN

Query Match 80.0%; Score 16; DB 10; Length 516;
Best Local Similarity 100.0%; Pred. No. 80;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

3 TTAGAGGAGAACAGTCT 18

375 TTAGAGGAGAACAGTCT 360

Db

RESULT 19

LOCUS BG994855 516 bp mRNA linear EST 13-JUN-2001

DEFINITION PMO-HT1166-150201-002-c08 HT1166 Homo sapiens cDNA, mRNA sequence.

ACCESSION BG994855

VERSION BG994855.1 GI:14398925

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

COMMENT

FEATURES

SOURCE

FEATURES

SOURCE

FEATURES

SOURCE

FEATURES

SOURCE

/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_strage="Adult"
/clone_lib="HT1166"
/note="Organ: head, neck; Vector: pUC18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORSTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT

114 a 120 c 115 g 167 t

ORIGIN

Query Match 80.0%; Score 16; DB 12; Length 516;
Best Local Similarity 100.0%; Pred. No. 80;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

5 AGAGAGAACAGTCCC 20

414 AGAGAGAACAGTCCC 399

Db

RESULT 20

LOCUS CA405555 524 bp mRNA linear EST 07-NOV-2002

DEFINITION 1001704 Human Fat Cell 5'-Stretch Plus cDNA Library Homo sapiens

ACCESSION CA405555

VERSION CA405555.1 GI:24770426

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

FEATURES

SOURCE

FEATURES

SOURCE

FEATURES

SOURCE

FEATURES

SOURCE

LOCUS B0347567 550 bp mRNA linear EST 20-MAY-2002
 DEFINITION CM0-HT0179-051099-064-g10 HT0179 Homo sapiens cDNA, mRNA sequence.
 ACCESSION B0347567
 VERSION B0347567.1 GI:21011623
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 550)
 Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briomes, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldmann, G.H., Carvalho, A.F., Matukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
 Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
 Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
 MEDLINE 20202653
 PUBMED 10737800
 COMMENT Contact: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpso@ludwig.org.br
 This sequence was derived from the PAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
 (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM0<2=CM0-HT0179-051099-064-g10<3=1999-10-05<4=1)
 Seq primer: puc 18 forward
 High quality sequence stop: 2.
 Location/Qualifiers
 1..550
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /dev_stage="Adult"
 /clone_lib="HT0179"
 /note="Organ: head neck; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORSTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
 BASE COUNT 179 a 111 c 94 g 166 t
 ORIGIN
 Query Match 80.0%; Score 16; DB 13; Length 550;
 Best local Similarity 100.0%; Pred. No. 81;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 2 CTTAGGAGGACACAGT 17
 ||||||||||||
 ||||||||||||
 Db 279 CTTAGGAGGACACAGT 294
 RESULT 22
 W52429 554 bp mRNA linear EST 31-MAY-1996
 LOCUS W52429
 DEFINITION zc94e08.t1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338822
 5', mRNA sequence.
 ACCESSION W52429
 VERSION W52429.1 GI:1349780
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 554)
 AUTHORS Hallier, L., Lemmon, G., Becker, M., Bonaldo, M.F., Chiapelli, B., Chisone, S., Dietrich, N., Dubuque, T., Favello, A., Gish, W., Hawkins, M., Hulman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Maris, E., Moore, B., Morris, M., Parsons, J., Prange, C., Riklin, L., Roiling, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Treviskis, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.
 Generation and analysis of 280,000 human expressed sequence tags
 Genome Res. 6 (9), 807-828 (1996)
 MEDLINE 97044478
 PUBMED 8889349
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@wustl.wustl.edu
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: mob.REGA+ET
 High quality sequence stop: 440.
 Location/Qualifiers
 1..554
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="GDB:1264196"
 /db_xref="taxon:9606"
 /clone="IMAGE:338822"
 /tissue_type="pancreatic islet"
 /lab_host="SOLR cells (kanamycin resistant)"
 /clone_lib="Pancreatic Islet"
 /note="Organ: pancreas; Vector: pBluescript SK-; Site 1: EcoRI; Site 2: XhoI; Reference: Hum Mol Gen 2, 1795 (1993) Takeda et al. Cloned unidirectionally. Primer: Oligo dT.
 ~5' adaptor sequence: 5' GAATTCGGACGAG 3' ~3' adaptor sequence: 5' CTCGAGTCTTCTTTTCTTTT 3'"
 BASE COUNT 181 a 97 c 95 g 180 t 1 others
 ORIGIN
 Query Match 80.0%; Score 16; DB 14; Length 554;
 Best local Similarity 100.0%; Pred. No. 81;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 2 CTTAGGAGGACACAGT 17
 ||||||||||||
 ||||||||||||
 Db 412 CTTAGGAGGACACAGT 427
 RESULT 23
 B1751017/c 591 bp mRNA linear EST 25-SEP-2001
 LOCUS B1751017
 DEFINITION Ta01_05d02 C
 Ta01 AAFc ECORC Fusarium graminearum inoculated wheat heads
 Triticum aestivum cDNA clone Ta01_05d02, mRNA sequence.
 B1751017
 B1751017.1 GI:15772819
 KEYWORDS EST.
 SOURCE Triticum aestivum (bread wheat)
 ORGANISM Triticum aestivum
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae
 ; Triticeae; Triticum.
 1 (bases 1 to 591)
 Ouellet, T., Dan, H., Koul, A., Chapados, J., Couroux, P., De Moors, A., Harris, L.J., Hattori, J.I., Robert, L.S., Singh, J.A., Sprott, D. and Tinker, N.A.
 Expressed Sequence Tags from Wheat Heads 24 Hours after Spray Inoculation with Fusarium graminearum
 Unpublished
 Contact: Ouellet, Therese
 Eastern Cereal and Oilseed Research Centre
 Agriculture and Agri-Food Canada
 Neatby Bldg., Central Experimental Farm, Ottawa, Ontario, KIA 0C6,

CANADA
Tel: (613) 759-1658
Fax: (613) 759-1701
Email: onellect@em.agr.ca.
Location/Qualifiers
1..591

/organism="Triticum aestivum"
/mol_type="mRNA"
/cultivar="Frontana"
/db_xref="taxon:4565"
/clone="TA01.05d02"
/tissue_type="heads"
/dev_stage="anthesis"
/clone_lib="TA01_AAFc_ECORC_Fusarium_graminearum_inoculate
d wheat heads"
/note="Vector: pGEM-T easy; Site 1: EcoRI; Site 2: EcoRI;
Controlled chamber-grown wheat heads were spray inoculated
at mid-anthesis with a Fusarium graminearum macroconidial
suspension (50,000 spores/ml) and kept under intermittent
mistling for 24 hours, then collected and immediately
frozen in liquid nitrogen."

BASE COUNT 162 a 157 c 132 g 140 t

ORIGIN

Query Match 80.0%; Score 16; DB 12; Length 591;
Best Local Similarity 100.0%; Pred. No. 82;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 TTAGGAGGAGCAACAGT 18
|||||
Db 272 TTAGGAGGAGCAACAGT 257

RESULT 24
HSM095392 standard; RNA; EST; 599 BP.

XX HSM095392 standard; RNA; EST; 599 BP.
XX BX501675;
XX BX501675.1
XX 09-MAY-2003 (Rel. 75, Created)
DT 09-MAY-2003 (Rel. 75, Last updated, Version 1)
XX Homo sapiens mRNA; EST DKFZp79F1664_r1 (from clone DKFZp79F1664)
DE Homo sapiens mRNA; EST DKFZp79F1664_r1 (from clone DKFZp79F1664)
XX EST; expressed sequence tag.

XX Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC Eutheria; Primates; Catarrhini; Homiidae; Homo.

XX [1]
RP 1-599
RA Wamburt R., Heubner D., Mewes H.W., Weil B., Amid C., Osanger A., Fobo G.,
RA Han N., Wiemann S.;

RT Submitted (07-MAY-2003) to the EMBL/GenBank/DBJ databases.
RL MRS, Ingolstaedter Landstr.1, D-85764 Neuherberg, GERMANY

XX This is the 5' sequence of the clone insert
CC Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
CC Research Center (DKFZ), Email s.wiemann@dkfz-heidelberg.de;
CC sequenced by AGOYA (Berlin/Germany) within the CDNA sequencing
CC consortium of the German Genome Project.
CC No 5' sequence available.
CC This clone (DKFZp79F1664) is available at the RZPD in Berlin.
CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6,
CC 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de

XX Key Location/Qualifiers
FH source 1..599

FT /db_xref="taxon:9606"
FT /mol_type="mRNA"
FT /organism="Homo sapiens"
FT /clone="DKFZp79F1664"
FT /clone_lib="779 (synonym: hnccl). Vector pSport1_Sfi; host
FT DH10B; sites SfiI + SfiII"
FT /dev_stage="fetal"
FT /tissue_type="liver"
XX
SQ Sequence 599 BP; 182 A; 105 C; 100 G; 212 T; 0 other;

Query Match 80.0%; Score 16; DB 2; Length 599;
Best Local Similarity 100.0%; Pred. No. 82;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGGAGCAACAGT 17
|||||
Db 479 CTTAGGAGGAGCAACAGT 494

RESULT 25
AUI37185 615 bp mRNA linear EST 02-AUG-2002
LOCUS
DEFINITION
AUI37185 PLACE1 Homo sapiens CDNA clone PLACE1005960 5', mRNA
sequence.

ACCESSION
VERSION
AUI37185
AUI37185.1 GI:10997724
KEYWORDS
EST.

SOURCE
Homo sapiens (human)

REFERENCE
Ota.T., Nishikawa.T., Suzuki.Y., Ishii.S., Saito.K., Kawai.Y.,
Yamamoto.J., Wakamatsu.A., Nakamura.Y., Nagai.T., Sugano.S. and
Isogai.T.

AUTHORS
HRI human CDNA project
Unpublished
Contact: Takao Isogai

TITLE
JOURNAL
COMMENT
Genomics laboratory
Helix Research Institute
1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
Tel: 81-438-52-3975
Fax: 81-438-52-3986
Email: genomice@hri.co.jp

HRI human CDNA project; 5'- & 3'-end one pass sequencing: Helix
Research Institute; CDNA library construction: Department of
Virology, Institute of Medical Science, University of Tokyo, and
Helix Research Institute.
Location/Qualifiers
1..615

FEATURES
source
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="PLACE1005960"
/tissue_type="placenta"
/clone_lib="PLACE1"
/note="Vector: pME18SFL3"

BASE COUNT 200 a 124 c 92 g 196 t 3 others

ORIGIN

Query Match 80.0%; Score 16; DB 9; Length 615;
Best Local Similarity 100.0%; Pred. No. 83;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGGAGCAACAGT 17
|||||
Db 87 CTTAGGAGGAGCAACAGT 102

RESULT 26
B1156614 630 bp mRNA linear EST 05-JUL-2001
LOCUS
B1156614

DEFINITION 602921206F1 NCI_CGAP_Mam3 Mus musculus cDNA clone IMAGE:5061625 5', mRNA sequence.

ACCESSION B155614

VERSION B155614.1 GI:14616615

KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE NIH-MGC <http://mgc.nci.nih.gov/>.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished

JOURNAL

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Chu-Xia Deng Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.llnl.gov>
Plate: LNA1166 row: k column: 02
High quality sequence stop: 624.
Location/Qualifiers

FEATURES

source

1..630

/organism="Mus musculus"

/mol_type="mRNA"

/strain="129, C57BL/6J, FVB/N"

/db_xref="taxon:10090"

/clone="IMAGE:5061625"

/tissue_type="tumor, gross tissue"

/dev_stage="10 months"

/lab_host="DH10B"

/clone_lib="NCI_CGAP_Mam3"

/note="Organ: mammary; Vector: pCMV-Sport6; Site 1: SalI; Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt. Library constructed by Life Technologies. Investigators providing samples: Lothar Hennighausen/Chu-Xia Deng, NIH Reference for transgenic model: Xu et al., Nature Genetics 22, 37-43 (1999)."

BASE COUNT 145 a 133 c 166 g 186 t

ORIGIN

Query Match 80.0%; Score 16; DB 12; Length 630;
Best Local Similarity 100.0%; Pred. No. 83;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 TTAGGAGGACACAGTC 18
|||||
Db 558 TTAGGAGGACACAGTC 573

RESULT 27
AV821593 661 bp mRNA linear EST 01-APR-2002
LOCUS AV821593 RAP14 Arabidopsis thaliana cDNA clone RAFL04-13-P03 5', mRNA sequence.
ACCESSION AV821593
VERSION AV821593.1 GI:19863621
KEYWORDS EST.
SOURCE Arabidopsis thaliana (chale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
1 (bases 1 to 661)
Seki, M., Narusaka, M., Ishida, Y., Kamiya, A., Saitou, M., Nakajima, M., Oono, Y., Sakurai, T., Carninci, P., Kawai, J., Itoh, M., Ishii, Y., Arakawa, T., Shibata, K., Shinagawa, A., Muramatsu, M., Hayashizaki, Y. and Shinozaki, K.
REFERENCE Large scale analysis of Arabidopsis full-length cDNA (2002b)
TITLE Unpublished

COMMENT Contact: Motoaki Seki
Plant Functional Genomics Research Group
RIKEN Genomic Sciences Center
3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan
Tel: 81-298-36-4359
Fax: 81-298-36-9060
Email: mseki@rtc.riken.go.jp
An Arabidopsis full-length cDNA library was constructed essentially as reported previously (Seki et al., 1998). This clone is in a modified pBluescript vector as a SrfI/XhoI insert. Please visit our web site (http://www.gsc.riken.go.jp/e/plant/index_e.html) for further details.

FEATURES

source

1..661

/organism="Arabidopsis thaliana"

/mol_type="mRNA"

/db_xref="taxon:3702"

/clone="RAFL04-13-P03"

/dev_stage="rossette plants"

/lab_host="SOLR"

/clone_lib="RAP14"

/note="Site 1: SrfI; Site 2: XhoI; subjected to cold-treated(1,2,5,10,24 hr)"

BASE COUNT 188 a 132 c 140 g 201 t

ORIGIN

Query Match 80.0%; Score 16; DB 9; Length 661;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGGAGGACACAGT 17
|||||
Db 139 CTTAGGAGGACACAGT 154

RESULT 28
BU273261/c 668 bp mRNA linear EST 09-APR-2002
LOCUS BU273261 Y. Ogihara unpublished cDNA library, Wh_oh Triticum
DEFINITION aestivum cDNA clone wholieg03 3', mRNA sequence.
ACCESSION BU273261
VERSION BU273261.1 GI:20098087
KEYWORDS EST.
SOURCE Triticum aestivum (bread wheat)
ORGANISM Triticum aestivum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae
; Triticeae; Triticum.
1 (bases 1 to 668)
Ogihara, Y. and Murai, K.
REFERENCE Expressed genes in Triticum aestivum
TITLE Unpublished
JOURNAL
AUTHORS Contact: Tadasu Shin-I
Center For Genetic Resource Information
National Institute of Genetics
1111 Yata, Mishima, Shizuoka 411-8540, Japan
Tel: 81-559-81-6856
Fax: 81-559-81-6855
Email: tehin@genes.nig.ac.jp.

FEATURES

source

1..668

/organism="Triticum aestivum"

/mol_type="mRNA"

/cultivar="Chinese Spring"

/db_xref="taxon:4565"

/clone="wholieg03"

/tissue_type="pistil at heading date"

/dev_stage="Peekes' scale 10.5"

/clone_lib="Y. Ogihara unpublished cDNA library, Wh_oh"

BASE COUNT 172 a 185 c 148 g 163 t

ORIGIN

Query Match 80.0%; Score 16; DB 12; Length 668;

Best Local Similarity 100.0%; Pred. No. 84;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTAGAGGAGAACAGTC 18
|||||
Db 276 TTAGAGGAGAACAGTC 261

RESULT 29
B0539794 703 bp mRNA linear EST 27-MAY-2003

LOCUS B0539794
DEFINITION PTM0102 Phaeodactylum tricornutum Uni-Zap XR Phaeodactylum tricornutum cDNA 5', mRNA sequence.

ACCESSION B0539794
VERSION B0539794.1 GI:21395364
KEYWORDS EST

SOURCE Phaeodactylum tricornutum

ORGANISM Phaeodactylum tricornutum
Eukaryota; stramenopiles; Bacillariophyta; Bacillariophyceae; Bacillariophycidae; Naviculales; Phaeodactylaceae; Phaeodactylum.

REFERENCE 1 (bases 1 to 703)
Scala, S., Carels, N., Falciatore, A., Chiusano, M.L. and Bowler, C.
Genome properties of the diatom Phaeodactylum tricornutum
Plant Physiol. 129 (3), 993-1002 (2002)

AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT

Contact: Bowler C
Laboratory of Molecular Plant Biology
Stazione Zoologica 'Anton Dohrn'
Villa Comunale, I-80121, Napoli, Italy
Tel: 39 081 583 3268/3211
Fax: 39 081 764 1355
Email: chris@alpha.szn.it
Seq primer: 73 backward

FEATURES
Location/Qualifiers

1..703
/organism="Phaeodactylum tricornutum"
/mol_type="mRNA"
/db_xref="taxon:2850"
/cell_line="CCMP632"
/clone_lib="Phaeodactylum tricornutum Uni-Zap XR"
/note="Vector: Uni-Zap XR vector; Site_1: Eco RI; Site_2: Xho I"

BASE COUNT 183 a 210 c 182 g 128 t

Query Match 80.0%; Score 16; DB 13; Length 703;
Best Local Similarity 100.0%; Pred. No. 85;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGAGAACAGTCCC 20
|||||
Db 359 AGGAGAACAGTCCC 374

RESULT 30
B0635192 740 bp mRNA linear EST 23-SEP-2002
LOCUS B0635192
DEFINITION 003D06 Infected Arabidopsis Leaf Arabidopsis thaliana cDNA, mRNA sequence.

ACCESSION B0635192
VERSION B0635192.1 GI:23302447
KEYWORDS EST

SOURCE Arabidopsis thaliana (thale cress)

ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids
; eurosid II; Brassicales; Brassicaceae; Arabidopsi.

REFERENCE 1 (bases 1 to 740)
Lundsgaard, M., Emmersen, J., Nielsen, K.L., Wilson, I., Somerville, S.
and Weidner, K.G.
EST sequencing of Erysiphe cichoracearum infected Arabidopsis plants

JOURNAL Unpublished
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Institut for bioteknologi
Aalborg Universitet
Sohnsgaardholmsvej 49, 9000 Aalborg, Denmark
Tel: +45 96358467
Fax: +45 98141808
Email: kgw@bio.auc.dk.

FEATURES
Location/Qualifiers

1..740
/organism="Arabidopsis thaliana"
/mol_type="mRNA"
/strain="Columbia"
/db_xref="taxon:3702"
/dev_stage="plant 3 weeks old, three days post infection"
/clone_lib="Infected Arabidopsis leaf"
/note="Organ: leaf; Vector: pBluescript; Mixed cDNA library of Arabidopsis and E. cichoracearum infected leaf from three weeks old Arabidopsis plants. Plants were harvested 3 days after infection and mRNA oligo dt selected."

BASE COUNT 205 a 142 c 170 g 223 t

Query Match 80.0%; Score 16; DB 13; Length 740;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGAGGAGAACAGT 17
|||||
Db 130 CTTAGAGGAGAACAGT 145

RESULT 31
B1115344 745 bp mRNA linear EST 26-JUN-2001
LOCUS B1115344
DEFINITION 602863159P1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:5022326 5', mRNA sequence.

ACCESSION B1115344
VERSION B1115344.1 GI:14566245
KEYWORDS EST

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 745)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)

AUTHORS
TITLE
JOURNAL
COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgabbe-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
plate: LNCM1842 row: e column: 15
High quality sequence stop: 674.

FEATURES
Location/Qualifiers

1..745
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5022326"
/tissue_type="rhabdomyosarcoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 17"
/note="Organ: muscle; Vector: pONT7; Site_1: EcoRI; Site_2: XhoI; cDNA made by oligo-dT priming. directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAAGAG(G). Size-selected >500bp

for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 151 a 244 c 204 g 146 t

Query Match 80.0%; Score 16; DB 12; Length 745;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGAGGAACAACT 17
|||||
Db 689 CTTAGAGGAACAACT 704

RESULT 32 BE869673 871 bp mRNA linear EST 20-OCT-2000
LOCUS 60144577F1.NIH_MGC_65 Homo sapiens CDNA clone IMAGE:3849618 5',
DEFINITION mRNA sequence.

ACCESSION BE869673 GI:10318358
VERSION BE869673
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 871)
NIH-MGC http://mgc.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LNLN at:

http://image.llnl.gov

Plate: LLM9567 row: f column: 19

High quality sequence stop: 676.

Location/Qualifiers

1. 871

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:3849618"

/tissue_type="adenocarcinoma"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_65"

/note="Organ: colon; Vector: pCMV-SPORT6; Site: 1; NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.8 kb. Library constructed by Life
Technologies."

BASE COUNT 274 a 169 c 161 g 267 t

ORIGIN

Query Match 80.0%; Score 16; DB 10; Length 871;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGAGGAACAACT 17
|||||
Db 180 CTTAGAGGAACAACT 195

RESULT 33 BI088175 872 bp mRNA linear EST 20-JUN-2001
LOCUS 60285121F1.NIH_MGC_10 Homo sapiens CDNA clone IMAGE:4992843 5',
DEFINITION mRNA sequence.

ACCESSION BI088175
VERSION BI088175.1 GI:14506505
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 872)
NIH-MGC http://mgc.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: Incyte Genomics, Inc.

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LNLN at:

http://image.llnl.gov

Plate: LLM11012 row: i column: 04

High quality sequence stop: 738.

Location/Qualifiers

1. 872

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4992843"

/cell_line="MGC36"

/lab_host="DH10B"

/clone_lib="NIH_MGC_10"

/note="Organ: cervix; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.5 kb. Library prepared by Life
Technologies."

BASE COUNT 281 a 165 c 151 g 275 t

ORIGIN

Query Match 80.0%; Score 16; DB 12; Length 872;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTTAGAGGAACAACT 17
|||||
Db 130 CTTAGAGGAACAACT 145

RESULT 34 BU177008 879 bp mRNA linear EST 04-SEP-2002
LOCUS AGENCOURT_7940818.NIH_MGC_71 Homo sapiens CDNA clone IMAGE:6155256
DEFINITION 5', mRNA sequence.

ACCESSION BU177008

VERSION BU177008.1 GI:22690992

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 879)
NIH-MGC http://mgc.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LNLN at:

http://image.llnl.gov

Plate: LLM13497 row: k column: 01

FEATURES High quality sequence stop: 691.
Location/Qualifiers

Source 1..879

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6155256"
/tissue_type="leiomyosarcoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_71"
/note="Organ: uterus; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2.1 kb."
280 a 159 c 143 g 297 t

BASE COUNT
ORIGIN

Query Match 80.0%; Score 16; DB 13; Length 879;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGAGGACCACT 17
|||||
Db 439 CTTAGAGGACCACT 454

RESULT 35

LOCUS BG740602 884 bp mRNA linear EST 15-MAY-2001
DEFINITION 602631028F1 NCI_CGAP_Skn3 Homo sapiens cDNA clone IMAGE:4776247 5',
mRNA sequence.

ACCESSION BG740602
VERSION BG740602.1 GI:14051255

KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 884)

TITLE NIH-MGC http://mgs.nci.nih.gov/
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

Tissue Procurement: James Cleaver, M.D.
cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed By: The I.M.A.G.E. Consortium (LNL) DNA
Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be
found through The I.M.A.G.E. Consortium/LNL at:

http://image.lnl.gov

plate: LLM10628 row: h column: 08

High quality sequence stop: 753.
Location/Qualifiers

Source 1..884

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4776247"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NCI CGAP_Skn3"
/note="Organ: skin; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.5kb. Library constructed by Life
Technologies. Note: this is a NCI_CGAP Library."
264 a 180 c 154 g 286 t

BASE COUNT
ORIGIN

Query Match 80.0%; Score 16; DB 10; Length 884;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTAGAGGACCACT 17
|||||

DB 193 CTTAGAGGACCACT 208

Search completed: August 15, 2003, 10:57:48
Job time: 1261 secs